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AD-A203 644

# SMOS

## SUMMARY OF METEOROLOGICAL OBSERVATIONS, SURFACE

STATION:	#13750 Norfolk, VA	DATE	December 1935
	LAT. 36:57 N. LONG. 76:17 W.		
ELEVATION:	15 feet		
PERIOD:	PERIOD: 1945-1955		
	DAILY: 1945-1955		

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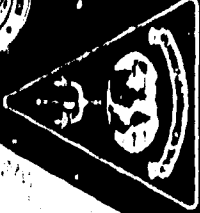
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20. ABSTRACT (Continue on reverse side if necessary and identify by block number) This data report consists of a six part statistical summary of surface weather observations. The six parts are: Part A - Weather Conditions/ Atmospheric Phenomena, Part B - Precipitation/Snowfall/Snow Depth, Part C - Surface Winds, Part D - Ceiling versus Visibility/Sky Cover, Part E - Psychrometric Summaries, Part F - Station Pressure/Sea Level Pressure.		

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DEC 16 1986

From: Officer in Charge, Naval Oceanography Command Detachment Asheville

Subj: SUMMARY OF METEOROLOGICAL OBSERVATIONS, SURFACE (SMOS)

1. Discussion. This edition of the SMOS was produced utilizing a revised software package. The product has been expanded to include station climatic summary tables and is considered a stand alone publication. This update includes the period of record (POR) through 1986 for all hourly and daily data. Our revised production methodology incorporates two computerized editing phases after the initial processing stage and a manual review and intervention of suspect data prior to the print phase. Every effort has been made to produce at least a 99.9 percent data perfect product based on the stations observation data. We have switched to a direct computer printout on standard computer paper instead of the previous print format. This results in a 85 percent print cost savings over our old specialized print format.

2. Weather Conditions. This summary is a percentage frequency occurrence of various atmospheric phenomena and obstructions to vision, derived from 3-hourly observations, and is presented in two tables as follows:

Table 13 By month, all years combined, by standard 3-hour groups and all hours combined.

Table 14 By month and annual, all hours and years combined, by wind direction.

Occurrences of the various phenomena included in each category on the forms are listed below:

- a. Thunderstorms - All reported occurrences of thunderstorm, tornado, and waterspout.
- b. Rain and/or drizzle - All liquid precipitation, falling to the ground, not freezing.
- c. Freezing rain and/or freezing drizzle (glaze) - Precipitation falling in liquid form, but freezing on contact with an unheated surface.
- d. Snow and/or sleet - Included are snow, sleet, snow pellets (soft hail), snow grains, and ice crystals.
- e. Hail - Occurrences of hail and small hail are included.
- f. Percentage of observations with precipitation - Included in this category are the observations when one or more of the above phenomena occurred. Since more than one type of precipitation may be reported in the same observation, the sums of the individual categories may exceed the total columns.
- g. Fog - Included are fog, ice fog, and ground fog.
- h. Smoke and/or haze - Occurrences of smoke, haze, or combinations of smoke and haze are included.
- i. Blowing snow - Occurrences of blowing snow also drifting snow when reported from non-WBAN sources.
- j. Dust and/or sand - Included are blowing dust, blowing sand, and dust.
- k. Blowing spray - This item if reported, is not shown in a separate category on this table but is included in the computation Percentage of Observations with Obstructions to Vision.



1. Percentage of observations with obstructions to vision - Included in this category are the observations when one or more of the above obstructions to vision occurred. Since more than one type of obstruction may be reported in the same observation, the sums of the individual categories may exceed the percentage total columns. Also, although precipitation may reduce visibility, it is not considered an obstruction to vision for purposes of this summary; therefore, the percentage total of obstructions to vision need not reflect the total observations with reduced visibility.

NOTE: The total number of observations may vary among tables within the same month and period. Percentages may not always equal 100.0 due to rounding practices.

3. Atmospheric Phenomena Table 36: This summary is a presentation of the percentage of days with occurrences of various atmospheric phenomena. These data are obtained from all recorded information on the reporting forms and combined into a daily observation.

a. The descriptions of the phenomena in the Weather Conditions Summary above also apply for the categories summarized in these tabulations. However, it should be noted that in this summary the columns headed "% OF OBS WITH PRECIP" and "% OF OBS WITH OBST TO VISION" show the percentage of days rather than percentage of observations. Since more than one type of precipitation or more than one type of obstruction may occur in the same daily observation, the sum of the values in the individual columns may not equal the total columns.

b. This presentation is by month with annual totals, and is prepared with all years combined.

NOTE: A day with rain and/or drizzle was not separately reported in WBAN data prior to January 1949. Therefore percentages in this column are restricted to the period January 1949 and later.

A day with dust and/or sand was punched and included in this summary only when visibility was less than 5/8 mile.

4. Precipitation, Snowfall and Snow Depth. These elements are presented using the daily amounts and extreme value.

a. Tables 8, 9, and 10 provide for each element separately the percentage frequency of various daily amounts, by month and annual, all years combined. The percentage of days with measurable amounts is also computed monthly and annually. Also shown for the precipitation and snowfall tables, are the monthly mean amounts, annual mean amounts (sum of monthly mean amounts), and the extreme monthly amounts (greatest and least).

b. Table 21 for each element presents the extreme daily amounts by individual month and day for the entire period of record available.

c. Tables 23, 24, and 25 provide for each element separately individual year and month extreme daily amounts and the means and standard deviations for each month and annual for all months combined.

NOTE 1: Snow depth was recorded and punched at various hours during the period available from U.S. operated stations. The periods and hours used in the snow depth summary vary by service and period as follows:

U.S. Navy and Weather Bureau Stations:

From beginning of record thru Jun 52 - Snow depth at 0030 UTC  
Jul 52 - May 57  
Jun 57 - present  
Snow depth at 1230 UTC  
Snow depth at 1200 UTC

NOTE 2: Hail was included in snowfall occurrence in the summary of the day observation prior to Jan 1956, and after Dec 1979.



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### 3. Surface Winds.

a. Extreme Values - Peak Gusts Table 27: Derived from daily observations and presented by individual year and month for the entire period of record available. Speeds are presented in knots, while directions are given in 16 compass points from the beginning of record through 1963, and in tens of degrees starting in January 1964. When 90% or more of the daily observations of peak gust wind data are available for a month, the extreme is selected and printed. These values are then used to compute means and standard deviations for the entire period. Every month of a year must have valid observations present before the ALL MONTHS value is selected for that year. Means and standard deviations are computed when four or more values are present for any column. A supplementary list of Peak Gusts by year-month with <90% observations reported is also provided.

b. Bivariate percentage frequency tabulations: Derived from hourly observations, these tabulations are a percentage frequency of wind directions to 16 compass points and calm by wind speeds (knots) in increments of Beaufort classifications. Percentages are shown by both direction and speed, and in addition the mean wind speed for each direction. A separate category is provided on the form for variable winds, which are reported in some data sources. In these data where light and variable winds are reported with no directions but with speeds given, the speeds will be summarized in the appropriate groups opposite the column headed VARBL.

Table 1 contains three presentations prepared for all surface winds included, and for all years combined as follows:

- (a) By month - by standard 3-hour groups
- (b) By month - all hours combined
- (c) Annual - all hours combined

6. Ceiling Versus Visibility Table 2. This summary is a bivariate percentage frequency distribution by classes of ceiling from zero to equal to or greater than 20,000 feet and as a separate class "no ceiling", versus visibility in 16 classes from zero to equal to or greater than 10 miles. Data are derived from 3-hourly observations, and three sets of tables are presented as follows:

- (a) By Month - by standard 3-hour groups
- (b) By Month - all years and all hours combined
- (c) Annual - all years and all hours combined

Due to the cumulative nature of this presentation, it is possible to determine the percentage frequency of occurrence for any given limit of ceiling or visibility separately, or in combination of ceiling and visibility. The totals progress to the right and downward. Ceiling may be determined independently by referring to totals in the extreme right hand column. Also, visibility may be determined independently by reference to the horizontal row of totals at the bottom of the page. The percentage frequency for which the station was meeting or exceeding any given set of minimal may be determined from the figure at the intersection of the appropriate ceiling column and visibility row. Several examples in the use of these tables are shown on on the following pages.



Beginning in July 1948 for U. S. Air Force stations and January 1949 for National Weather Service (NWS) and U.S. Navy stations the "no ceiling" category consists of observations with less than 6/10 total sky cover and those cases where total sky cover is 6/10 or more, but not more than 1/2 of the sky cover is opaque.

# EXAMPLES FOR USE OF CEILING VERSUS VISIBILITY TABLES IN THIS TABULATION

CEILING (FEET)	VISIBILITY (STATUTE MILES)										
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4
NO CEILING											≥ 0
≥ 1800											
≥ 1500					91.0						92.6
≥ 1200											
≥ 1000											
≥ 900											
≥ 800											
≥ 700											
≥ 600											
≥ 500											
≥ 400											
≥ 300											
≥ 200											
≥ 100											
≥ 0					95.4		96.9		97.4	98.3	100.0

EXAMPLE # 1: Read ceiling values independently of visibility under column at right headed > 0. For instance, from the table:

Ceiling ≥ 1500 feet = 92.6%.  
Ceiling ≥ 500 feet = 98.1%.

EXAMPLE # 2: Read visibilities independently of ceilings on bottom line opposite > 0. From the tables:

Visibility ≥ 3 miles = 95.4%.  
Visibility ≥ 2 miles = 96.9%.  
Visibility ≥ 1 mile = 98.3%.

EXAMPLE # 3: To obtain combinations of ceiling with visibility, read figure at intersection of the two categories; i.e.: Ceiling ≥ 1500 feet with visibility ≥ 3 miles = 91.0%.

EXAMPLE # 4: Values below minimums stated in the table may be obtained by subtracting the value given in the table from 100%. Thus, to obtain the percentage of observations with ceiling < 1500 feet and/or visibility < 3 miles, subtract the value read from the table at the intersection, which is 91.0, from 100.0. The answer 9.0 is the percentage of observations with ceiling < 1500 feet and/or visibility < 3 miles.

Likewise, the percentage of observations with ceiling < 500 feet and/or visibility < 1 mile is 2.6, obtained by subtracting 97.4 from 100.0.

EXAMPLE # 5: To find the percentage of observations falling within the two categories given in example above, subtract the value read from the table for the first set of limits from the value in the table for the second set of limits. The difference will be the percentage of observations meeting the lower set of limits, but not meeting the higher set of limits.



The value 91.0 read from the table at the intersection of  $\geq 1500$  feet with  $\geq 3$  miles, subtracted from 97.4 read from the table at the intersection of  $\geq 500$  feet with  $\geq 1$  mile is equal to 6.4%. Thus: 6.4 percent of the observations meet the criteria: ceiling  $\geq 500$  feet with visibility  $\geq 1$  mile, but  $< 3$  miles; or ceiling  $\geq 500$  feet, but  $< 1500$  feet with visibility  $\geq 1$  miles.

Since these tabulations are prepared in several ways including by month, by 3-hour groups it is possible to determine diurnal variations of ceiling and visibility limits as well as probabilities of various ceiling-visibility combinations.

7. Sky Cover Table 11. This summary is prepared from 3-hourly observations and is a percentage frequency distribution of total sky cover (see Note 3) and total number of observations. It is presented as follows:

By month and annual - by standard 3-hour groups, and all hours combined.

NOTE: #1: Sky cover (total cloud amount) was not reported by U.S. Services until mid 1945. Data, when available, were punched for Air Force stations beginning in 1946, but were not available for Navy stations until 1948 or 1949. NWS stations recorded total cloud amount in remarks beginning sometime in 1945, but few stations have punched data prior to 1948. This summary will, of course, be limited to period of available data.

NOTE: #2: Some data sources used for this summary report cloud amounts in oktas. These have been converted to tenths prior to summarizing, and notation is made on the form to indicate that data were originally reported in oktas. The manner of conversion is given below:

<u>OKTAS</u>	<u>TENTHS</u>
0	0
1	1
2	3
3	4
4	5
5	6
6	8
7	9
8 (or obscured)	10

NOTE: #3: Beginning in 1981 the symbols of Clear, Scattered, Broken, Overcast, and Obscured were used as input for the Total Sky Cover. Following are the conversions:

0/10 equates to clear  
 1/10 to 5/10 equates to scattered  
 6/10 to 9/10 equates to broken  
 10/10 equates to overcast

8. Psychrometric Summaries.

a. Cumulative percentage frequency of occurrence - derived from daily observations and presented by month and annual for all years combined. These tabulations provide the cumulative percentage frequency to tenths of temperature by 5-degree Fahrenheit increments, plus mean temperature, standard deviation, and total number of observations in three separate tables as follows:

Table 5 Daily maximum temperature  
Table 6 Daily minimum temperature  
Table 7 Daily mean temperature



b. Daily Average/Extreme Temperatures Table 29 derived observations and presented for each month and day for entire period of record available are average temperature, average and extreme maximum temperature, average and extreme minimum.

c. Extreme values - derived from daily observations with extreme value given for each year and month of record available. Extremes are provided for a month if all days for a month contain valid observations. All months for a year must have valid extremes before the ANNUAL value is selected for that year. Means and standard of daily extreme temperatures are prepared:

Table 30 Extreme maximum temperature

Table 31 Extreme minimum temperature

NOTE: A supplementary list also provides extreme temperatures when less than a full month is reported.

d. Bivariate percentage frequency distribution and computations of dry-bulb versus wet-bulb temperature Table 3. This tabulation is derived from 3-hourly observations and is presented by month and annual, all hours and all years combined. The following information is provided:

(1) The main body of the summary consists of a bivariate percentage frequency distribution of wet-bulb depression is 17 classes spread horizontally; by 2-degree intervals of dry-bulb temperature vertically. Also provided for each dry-bulb temperature interval is the total number of observations with dry-bulb and wet-bulb temperature combined; and again for dry-bulb, wet-bulb, and dew-point temperatures separately. Total observations for these four items is also provided in two lines at end of each tabulation table.

NOTE: A percentage frequency in this table of ".0" represents one or more occurrences amounting to less than .05 percent.

(2) Statistical data for the individual elements of relative humidity, dry-bulb, wet-bulb, and dew-point temperatures are shown in the section at the bottom left of each page. These consist of the sum of squares ( $\sum X^2$ ), sums of values ( $\sum X$ ), means ( $\bar{X}$ ), and standard deviations ( $\sigma_x$ ). The number of observations used in the computations for each element is also shown.

(3) At the lower right of each page Table 40 gives the mean number of hours of occurrence for six ranges of dry-bulb, wet-bulb, and dew-point temperatures, and total number of hours possible in the period represented. Mean number of hours is shown to tenths and indicates mean number of hours per year in the annual summary, or mean number of hours per month in the tabulations by month.

NOTE: Wet-bulb temperature usually was not reported prior to 1946. Relative humidity usually was not reported prior to 1949, nor subsequent to June 1958; and was computed by machine methods for observations recorded during these periods. All values of dew-point temperature and relative humidity are with respect to water, unless otherwise indicated.

d. Means and standard deviations. These tabulations are derived from hourly observations and present the mean, standard deviation, and total number of observations for the eight standard 3-hour groups, by month and annual and again at the bottom for all hours combined. Records for all years available are combined. Tables are prepared for the following:

Table 15 Dry-bulb temperature

Table 16 Wet-bulb temperature

Table 17 Dew-point temperature

e. Cumulative percentage frequency of occurrence of relative humidity Table 12. This summary is derived from hourly observations and presents the cumulative percentage frequency of occurrence of relative humidity by increments of 10% classes, plus the mean relative humidity and total number of observations in two tables.



By Month and Annual - by standard 3-hour groups, and all hours combined with the hour groups being the vertical argument. All years are combined for this summary.

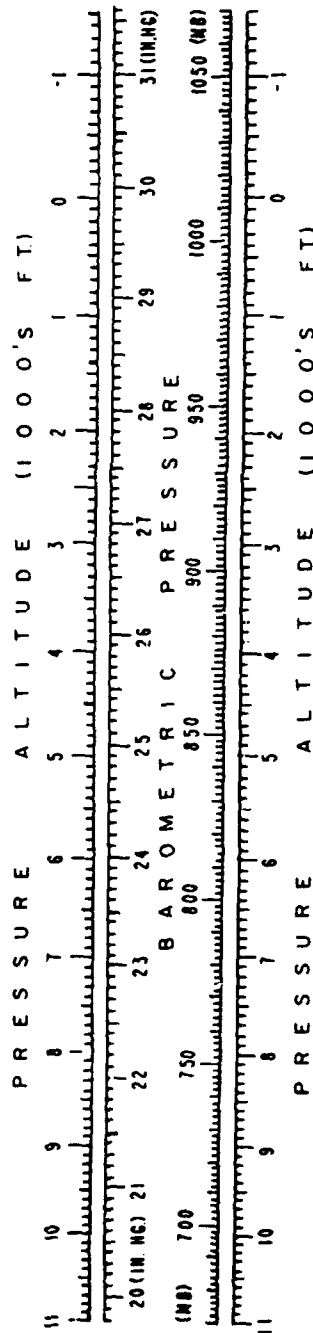
f. Percentage frequency of occurrence of dry-bulb temperature versus wind direction Table 4. This tabulation is derived from hourly observations and is presented by month and annual, all hours and years combined. The main body of the summary consists of dry bulb temperatures spread vertically in five degree increments and horizontally by eight wind directions (plus calm).

9. Pressure Summary. Two tables giving the means, standard deviations, and total number of observations of station pressure and sea-level pressure by month and annual for the local hourly observations corresponding to the eight 3-hourly synoptic times UTC. The same computations are also provided at the bottom of the page for all hours combined. All years of data available are combined in both of these tables.

Table 18 Station pressure in inches of mercury

Table 19 Sea-level pressure in millibars

Provided below is a scale to convert station pressure values in inches of mercury or millibars to pressure latitude in 1000's of feet. This scale is an enlarged model of the pressure latitude scale in the Smithsonian Meteorological Tables.





TABULATION INDEXES BY NUMBER

TAB # DESCRIPTION

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- 2 CEILING VERSUS VISIBILITY -- BY HOUR
- 3 PSYCHROMETRIC SUMMARY -- DEPRESSIONS, DRY BULB, WET BULB, DEW POINT
- 28 MEANS AND STANDARD DEVIATIONS OF RELATIVE HUMIDITY
- 40 MEAN NO. OF DAYS WITH TEMPERATURE  $\geq$  OR  $\leq$  THRESHOLD VALUES
- NOTE : 28 AND 40 ARE SUB TABLES OF TABLE 3
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- 12 REL HUM -- HOUR VS REL HUM AMTS VS MONTH
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- 39 OMITTED



013750 : NORFOLK, VA  
 PERIOD OF RECORD : 1945-1986  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
 MONTH : JAN  
 HOUR : 0100 LST

PERCENTAGE FREQUENCY OF WIND  
 DIRECTION VS SPEED  
 (FROM HOURLY OBSERVATIONS)

16 PT. DIR.	SPEED (KNOTS)															TOTAL %	MEAN WIND SPEED
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>56	z					
N	.8	1.1	2.4	4.2	1.1	.2	.1	.1	.0	.0	.0	10.0	11.6				
NNE	.3	1.7	2.2	2.4	1.1	.2	.0	.0	.0	.0	.0	8.0	11.1				
NE	.5	1.3	1.3	.8	.3	.1	.0	.0	.0	.0	.0	4.3	8.6				
ENE	.4	.9	.6	.5	.0	.0	.0	.0	.0	.0	.0	2.4	7.1				
E	.4	.6	.2	.2	.0	.0	.0	.0	.0	.0	.0	1.3	5.5				
ESE	.3	.2	.2	.2	.0	.0	.0	.0	.0	.0	.0	1.1	7.9				
SE	.7	.3	.3	.1	.0	.0	.0	.0	.0	.0	.0	1.4	4.9				
SSE	.8	1.5	.8	.3	.1	.0	.0	.0	.0	.0	.0	3.5	6.4				
S	1.2	2.4	2.0	1.2	.2	.2	.0	.0	.0	.0	.0	7.0	7.6				
SSW	.6	2.5	4.2	3.5	.7	.4	.0	.0	.0	.0	.0	11.9	10.0				
SW	.6	1.6	2.6	1.1	.5	.1	.0	.0	.0	.0	.0	6.5	8.7				
WSW	.7	.9	2.0	1.1	.6	.1	.0	.0	.0	.0	.0	5.4	9.4				
W	.6	1.7	2.8	2.5	.5	.0	.0	.0	.0	.0	.0	8.0	9.5				
WNW	.5	1.3	2.0	1.4	.3	.0	.0	.0	.0	.0	.0	5.6	8.8				
NW	.3	1.7	2.0	2.7	.4	.0	.0	.0	.0	.0	.0	7.2	9.9				
NNW	.1	1.6	2.4	2.9	.8	.2	.0	.0	.0	.0	.0	7.9	10.9				
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0				
CLM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.7	.0				
ALL	8.7	21.4	28.1	25.0	6.6	1.4	.1	.1	.0	.0	.0	100.0	8.6				

TOTAL NO. OF OBS : 1270

NOTES : PERCENT < .05  
 \* = PERCENT < .05



013750 : NOFFOLK, VA LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
 PERIOD OF RECORD : 1945-1986 MONTH : JAN  
 CLASS : ALL WEATHER HOUR : 0400 LST  
 CONDITION : NONE SPECIFIED

PERCENTAGE FREQUENCY OF WIND  
 DIRECTION VS SPEED  
 (FROM HOURLY OBSERVATIONS)

16 PT. DIR.	1	2	3	4	5	6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>=56	TOTAL %	MEAN WIND SPEED
N	.7	1.7	2.8	5.0	.5	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	10.9	10.8
NNE	.6	1.7	3.2	2.4	.9	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	9.1	10.6
NE	.2	1.0	1.6	.9	.3	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	4.4	10.3
ENE	.2	.6	.8	.6	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2	8.7
E	.5	.6	.4	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	6.7
ESE	.3	.1	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	6.6
SE	.5	.4	.6	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6	5.9
SSE	.6	1.3	.9	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.9	6.3
S	.8	1.8	1.9	.7	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.5	7.5
SSW	.3	2.7	4.2	2.8	1.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	11.3	9.9
SW	.5	2.0	2.8	1.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.8	8.4
WSW	1.2	2.1	1.9	2.0	.4	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	7.8	8.8
W	.6	1.7	2.1	2.2	.6	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.2	9.8
WNW	.5	.7	2.4	1.2	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.1	9.3
NW	.4	.9	2.0	2.2	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.3	10.4
NNW	.3	1.5	2.9	3.4	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.7	10.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.8	.0
ALL	8.0	20.5	30.5	25.5	5.8	1.6	.2	.1	.0	.0	.0	.0	.0	.0	.0	100.0	8.8

TOTAL NO. OF OBS : 1271

NOTES : \* = PERCENT < .05



# 1 - SURFACE WINDS

013750 : NORFOLK, VA  
 PERIOD OF RECORD : 1945-1986  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
 MONTH : JAN  
 HOUR : 0700 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

DIR.	SPEED (KNOTS)																TOTAL %	MEAN WIND SPEED
	1-5	6-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>56								
N	.5	2.4	2.8	3.8	1.3	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	11.2	10.9
NNE	.4	1.3	2.1	2.5	.9	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.6	11.5
NE	.6	1.7	2.3	1.0	.3	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.2	9.2
ENE	.5	.5	.6	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.1	7.3
E	.2	.3	.6	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	8.7
ESE	.2	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	5.6
SE	.4	.3	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	6.9
SSE	.7	1.1	.8	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.8	5.8
S	1.3	1.5	1.8	.8	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.6	7.2
SSW	1.3	2.5	4.2	3.1	.6	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12.0	9.2
SW	.8	1.8	3.4	1.8	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.1	8.5
WSW	.9	1.2	1.8	1.7	.6	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.3	9.3
W	.7	1.3	1.5	2.0	.6	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.4	10.2
WNW	.2	.9	2.0	1.8	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.1	10.0
NW	.4	1.4	2.2	1.5	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.0	9.5
NNW	.2	1.7	3.9	3.1	.6	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.8	10.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.6	.0
ALL	9.4	20.0	30.5	24.2	6.1	1.8	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	8.8

TOTAL NO. OF OBS : 1271

NOTES : \* = PERCENT < .05



# 1 - SURFACE WINDS

013750 : NORFOLK, VA  
 PERIOD OF RECORD : 1945-1986  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
 MONTH : JAN  
 HOUR : 1000 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

DIR.		SPEED (KNOTS)												TOTAL	MEAN		
1	2	3	4	5	6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>=56	%	WIND	SPEED
N	.9	2.2				3.5	4.8	1.0	.4	.0	.0	.0	.0	.0	12.8		10.6
NNE	.6	1.9				3.9	3.3	1.1	.4	.2	.0	.0	.0	.0	11.3		11.2
NE	.2	1.2				2.1	.9	.2	.1	.0	.0	.0	.0	.0	4.6		9.1
ENE	.4	1.3				1.2	.6	.1	.0	.0	.0	.0	.0	.0	3.5		7.5
E	.2	.9				.9	.3	.0	.0	.0	.0	.0	.0	.0	2.3		6.7
ESE	.1	.3				.2	.3	.0	.0	.0	.0	.0	.0	.0	.9		8.2
SE	.1	.3				.4	.4	.1	.0	.0	.0	.0	.0	.0	1.3		9.0
SSE	.2	.6				.8	.8	.0	.1	.0	.0	.0	.0	.0	2.4		8.6
S	.3	1.3				2.0	1.7	.0	.1	.0	.0	.0	.0	.0	5.3		9.0
SSW	.6	.9				3.5	2.6	.9	.1	.0	.0	.0	.0	.0	8.5		10.5
SW	.4	1.3				3.4	3.4	.6	.2	.0	.0	.0	.0	.0	9.2		10.5
WSW	.2	.6				2.4	2.0	1.0	.0	.1	.0	.0	.0	.0	6.4		11.2
W	.9	1.4				3.0	3.2	.4	.2	.1	.0	.0	.0	.0	9.1		10.3
WNW	.2	.6				1.7	1.9	.6	.0	.0	.0	.0	.0	.0	5.0		11.3
NW	.5	.6				2.1	1.3	.6	.2	.0	.0	.0	.0	.0	5.2		10.4
NNW	.9	1.1				2.0	3.1	1.2	.2	.0	.0	.0	.0	.0	8.5		11.0
VAR	.0	.0				.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CLM	.0	.0				.0	.0	.0	.0	.0	.0	.0	.0	.0	3.7		.0
ALL	6.7	16.4				32.9	30.5	7.7	1.8	.3	.0	.0	.0	.0	100.0		9.9

TOTAL NO. OF OBS : 1271

NOTES :  
 \* = PERCENT < .05



# 1 - SURFACE WINDS

013750 : NORFOLK, VA  
 PERIOD OF RECORD : 1945-1986  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
 MONTH : JAN  
 HOUR : 1300 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

16 PT. DIR.	1	2	3	4	5	6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>56	TOTAL	MEAN
N	1.3	3.5	4.3	3.0	1.0	1.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	13.5	9.2
NNE	.7	3.1	5.3	3.3	1.3	1.3	.2	.1	.0	.0	.0	.0	.0	.0	.0	14.1	9.9
NE	.2	1.7	1.8	.7	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.9	8.3
ENE	.5	1.3	1.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.9	6.2
E	.2	.6	1.3	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.3	7.9
ESE	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	5.0
SE	.2	.2	.3	.1	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	7.9
SSE	.0	.3	.2	.2	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	10.8
S	.3	1.1	1.3	1.4	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.3	9.6
SSW	.4	.9	2.5	2.8	.9	.9	.2	.1	.0	.0	.0	.0	.0	.0	.0	7.8	11.3
SW	.6	.9	2.1	2.6	.9	.9	.4	.1	.0	.0	.0	.0	.0	.0	.0	7.5	11.8
WSW	.2	1.2	3.1	4.1	1.3	1.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	10.1	11.8
W	.9	2.4	3.9	3.1	.8	.8	.2	.0	.0	.0	.0	.0	.0	.0	.0	11.4	9.6
WNW	.2	.5	2.2	3.0	.9	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.7	11.7
NW	.0	.5	.9	1.6	.8	.8	.2	.0	.0	.0	.0	.0	.0	.0	.0	3.9	13.1
NNW	.4	.9	2.1	2.2	.6	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.2	10.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0	.0
ALL	6.1	19.3	32.4	28.5	9.5	9.5	1.9	.2	.0	.0	.0	.0	.0	.0	.0	100.0	10.0

TOTAL NO. OF OBS : 1271

NOTES :  
 \* = PERCENT < .05



# 1 - SURFACE WINDS

013750 : NORFOLK, VA  
 PERIOD OF RECORD : 1945-1986  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
 MONTH : JAN  
 HOUR : 1600 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

16 PT. DIR.	1 - 3	4 - 6	7-10	11-16	17-21	SPEED (KNOTS)										TOTAL %	MEAN	
						22-27	28-33	34-40	41-47	48-55	>56	WIND	SPEED					
N	1.6	1.0	2.4	2.4	1.1	.4	.0	.0	.0	.0	.0	.0	9.0	10.4				
NNE	.8	2.7	3.7	2.6	.8	.5	.1	.0	.0	.0	.0	.0	11.1	9.9				
NE	1.5	2.9	2.0	1.2	.4	.1	.0	.0	.0	.0	.0	.0	8.1	7.3				
ENE	1.3	2.6	1.2	.5	.1	.0	.0	.0	.0	.0	.0	.0	5.7	5.8				
E	.7	2.3	1.5	.2	.2	.0	.0	.0	.0	.0	.0	.0	4.9	6.4				
ESE	.3	.6	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	1.4	6.3				
SE	.3	.6	.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	1.4	6.9				
SSE	.2	.4	.4	.7	.1	.0	.0	.0	.0	.0	.0	.0	1.7	9.8				
S	.1	.6	1.3	1.4	.2	.0	.0	.0	.0	.0	.0	.0	3.7	10.5				
SSW	.4	.5	2.4	3.2	.4	.0	.0	.0	.0	.0	.0	.0	6.9	10.6				
SW	.4	1.2	2.4	2.8	.4	.2	.1	.0	.0	.0	.0	.0	7.3	10.5				
WSW	.7	1.9	3.2	2.7	.5	.1	.1	.0	.0	.0	.0	.0	9.1	9.6				
W	1.1	1.5	3.1	3.1	.6	.2	.1	.0	.0	.0	.0	.0	9.6	9.9				
WNW	.2	.8	2.6	3.8	.2	.2	.0	.0	.0	.0	.0	.0	7.8	11.0				
NW	.2	.6	1.8	1.6	.3	.1	.0	.0	.0	.0	.0	.0	4.6	10.5				
NNW	.2	.9	1.1	1.8	.6	.0	.0	.0	.0	.0	.0	.0	4.6	10.7				
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0				
CLM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.9	.0				
ALL	10.1	21.1	29.7	28.6	5.7	1.7	.3	.0	.0	.0	.0	.0	100.0	9.2				

TOTAL NO. OF OBS : 1270

NOTES :  
 \* = PERCENT < .05



# 1 - SURFACE WINDS

013750 : NORFOLK, VA  
 PERIOD OF RECORD : 1945-1986  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
 MONTH : JAN  
 HOUR : 1900 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

16 PT. DIR.	SPEED (KNOTS)																TOTAL	MEAN WIND SPEED
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>=56	2	3	4	5	6		
N	.8	1.5	2.4	2.1	1.0	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.2	10.4
NNE	.7	2.0	2.5	2.2	.6	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.6	10.2
NE	.6	1.4	1.3	1.3	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.0	9.4
ENE	.9	1.4	.7	.9	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.2	7.7
E	1.0	1.0	.6	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.8	5.4
ESE	1.7	.8	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.7	3.5
SE	1.7	1.4	.9	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.2	4.9
SSE	.9	1.4	1.3	.6	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.2	6.8
S	1.3	1.7	2.0	1.9	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.2	8.1
SSW	.5	2.8	3.9	2.1	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.5	8.5
SW	.5	1.8	1.6	1.8	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.0	8.7
WSW	.7	1.9	1.9	1.1	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.1	8.7
W	.6	.8	1.7	1.6	.6	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.3	10.0
WNW	.2	1.1	1.9	1.3	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.9	9.5
NW	.4	1.1	1.9	1.2	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.0	9.4
NNW	.2	1.0	1.8	2.4	.6	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.2	11.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.8	.0
ALL	12.6	23.3	26.7	20.8	5.1	1.4	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	7.9

TOTAL NO. OF OBS : 1271

NOTES : \* = PERCENT < .05



# 1 - SURFACE WINDS

013750 : NORFOLK, VA  
PERIOD OF RECORD : 1945-1986  
CLASS : ALL WEATHER  
CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : JAN  
HOUR : 2200 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

16 PT. DIR.	SPEED (KNOTS)																TOTAL %	MEAN WIND SPEED
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>=56							
N	.5	1.5	2.7	3.9	.7	.4	.0	.0	.0	.0	.0	.0	9.6	11.0				
NNE	.7	.6	2.0	2.2	1.2	.3	.1	.0	.0	.0	.0	.0	7.1	11.9				
NE	.3	1.3	1.3	.6	.3	.1	.0	.0	.0	.0	.0	.0	3.9	8.7				
ENE	.7	1.2	.6	.6	.2	.0	.0	.0	.0	.0	.0	.0	3.2	7.5				
E	.7	.6	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	1.7	5.4				
ESE	.5	.3	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	1.2	5.3				
SE	1.0	1.1	.6	.2	.0	.0	.0	.0	.0	.0	.0	.0	2.9	4.9				
SSE	1.5	1.8	.9	.6	.1	.0	.0	.0	.0	.0	.0	.0	4.9	5.9				
S	1.6	2.4	2.8	1.7	.4	.0	.0	.0	.0	.0	.0	.0	8.9	7.7				
SSW	.7	1.8	3.9	2.8	.9	.1	.0	.0	.0	.0	.0	.0	10.2	9.9				
SW	.5	1.3	3.1	1.4	.2	.1	.0	.0	.0	.0	.0	.0	6.5	9.0				
WSW	.6	1.3	2.3	1.5	.4	.1	.0	.0	.0	.0	.0	.0	6.1	9.4				
W	.9	1.1	1.8	1.4	.7	.2	.0	.0	.0	.0	.0	.0	6.1	9.6				
WNW	.4	1.0	2.4	.8	.4	.0	.0	.0	.0	.0	.0	.0	5.0	9.0				
NW	.2	1.4	1.5	2.4	.3	.0	.1	.0	.0	.0	.0	.0	5.8	10.4				
NNW	.6	.9	1.8	3.1	.8	.2	.0	.0	.0	.0	.0	.0	7.4	11.2				
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0				
CLM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.4	.0				
ALL	11.3	19.6	28.1	23.5	6.6	1.3	.2	.0	.0	.0	.0	.0	100.0	8.4				

TOTAL NO. OF OBS : 1270

NOTES :  
\* = PERCENT < .05



# 1 - SURFACE WINDS

013750 : NORFOLK, VA  
 PERIOD OF RECORD : 1945-1986  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
 MONTH : JAN  
 HOUR : ALL

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>56	TOTAL	MEAN
												%	WIND SPEED
N	.9	1.9	2.9	3.6	1.0	.3	.0*	.0*	.0	.0	.0	10.6	10.6
NNE	.6	1.9	3.1	2.6	1.0	.4	.1	.0	.0	.0	.0	9.6	10.7
NE	.5	1.6	1.7	.9	.3	.1	.0*	.0*	.0	.0	.0	5.2	8.7
ENE	.6	1.2	.8	.5	.1	.0	.0	.0	.0	.0	.0	3.3	7.1
E	.5	.8	.7	.2	.0*	.0*	.0	.0	.0	.0	.0	2.3	6.5
ESE	.4	.3	.2	.1	.0*	.0	.0	.0	.0	.0	.0	1.1	5.6
SE	.6	.6	.5	.2	.0*	.0	.0	.0	.0	.0	.0	1.9	5.9
SSE	.6	1.1	.7	.4	.1	.0*	.0	.0	.0	.0	.0	2.9	6.9
S	.9	1.6	1.9	1.3	.2	.0*	.0	.0	.0	.0	.0	5.9	8.2
SSW	.6	1.8	3.6	2.9	.7	.2	.0*	.0	.0	.0	.0	9.8	9.9
SW	.5	1.5	2.7	2.0	.4	.1	.0*	.0	.0	.0	.0	7.2	9.6
WSW	.7	1.4	2.3	2.0	.6	.1	.0*	.0	.0	.0	.0	7.2	9.9
W	.8	1.5	2.5	2.4	.6	.1	.0*	.0	.0	.0	.0	7.9	9.9
WNW	.3	.9	2.1	1.9	.4	.0*	.0	.0	.0	.0	.0	5.6	10.2
NW	.3	1.0	1.8	1.8	.5	.1	.0*	.0	.0	.0	.0	5.5	10.3
NNW	.4	1.2	2.2	2.8	.7	.1	.0	.0	.0	.0	.0	7.4	10.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.5	.0
ALL	9.1	20.2	29.9	25.8	6.7	1.6	.2	.0*	.0	.0	.0	100.0	8.9

TOTAL NO. OF OBS : 10165

NOTES :  
 \* = PERCENT < .05



## 2 - CEILING VS VISIBILITY

013750 : NORFOLK, VA  
PERIOD OF RECORD : 1945-1986  
CLASS : ALL WEATHER  
CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : JAN  
HOUR : 0100 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)									
	>=10	>=6	>=5	>=4	>=3	>=2 1/2	>=2	>=1 1/2	>=1 1/4	>=1
UNLIMIT	9.1	49.2	50.8	52.0	53.1	53.3	53.6	53.6	53.6	53.7
>=20000	9.3	51.4	53.1	54.3	55.4	55.6	55.9	55.9	56.0	56.0
>=18000	9.3	51.5	53.2	54.4	55.5	55.7	56.0	56.0	56.1	56.1
>=16000	9.3	51.6	53.2	54.5	55.5	55.8	56.0	56.1	56.2	56.2
>=14000	9.4	51.9	53.6	54.8	55.9	56.2	56.4	56.5	56.6	56.6
>=12000	9.7	53.6	55.2	56.5	57.6	57.9	58.1	58.2	58.3	58.3
>=10000	10.1	57.5	59.2	60.5	61.6	61.9	62.3	62.3	62.3	62.3
>= 9000	10.1	57.7	59.4	60.7	61.9	62.2	62.4	62.5	62.6	62.6
>= 8000	10.2	61.9	63.7	65.0	66.2	66.6	66.8	66.9	67.0	67.0
>= 7000	10.4	63.1	65.0	66.3	67.8	68.1	68.3	68.4	68.5	68.5
>= 6000	10.5	64.0	66.1	67.4	69.0	69.3	69.5	69.6	69.8	69.8
>= 5000	10.7	66.2	68.6	69.9	71.5	71.8	72.1	72.2	72.4	72.4
>= 4500	10.7	67.0	69.4	70.8	72.5	72.8	73.1	73.2	73.3	73.3
>= 4000	10.8	69.3	71.9	73.3	74.9	75.3	75.6	75.7	75.8	75.8
>= 3500	10.8	69.9	72.5	73.9	75.7	76.0	76.3	76.4	76.5	76.5
>= 3000	10.8	71.6	74.5	76.0	77.7	78.1	78.4	78.5	78.6	78.6
>= 2500	10.8	72.1	75.2	76.9	78.6	79.0	79.4	79.5	79.6	79.6
>= 2000	10.9	74.0	77.0	78.8	80.5	80.9	81.3	81.4	81.6	81.6
>= 1800	11.0	74.3	77.4	79.2	81.2	81.6	82.0	82.0	82.2	82.3
>= 1500	11.0	75.1	78.4	80.4	82.4	82.8	83.2	83.3	83.6	83.6
>= 1200	11.1	75.7	79.2	81.2	83.2	83.8	84.3	84.4	84.7	84.8
>= 1000	11.1	76.5	80.2	82.3	84.4	85.0	85.6	85.9	86.3	86.4
>= 900	11.1	76.8	80.8	82.9	85.2	85.9	86.6	86.8	87.2	87.3
>= 800	11.2	77.6	81.8	84.1	86.4	87.2	87.9	88.2	88.6	88.7
>= 700	11.2	78.1	82.4	85.1	87.5	88.3	89.1	89.4	89.5	89.9
>= 600	11.2	78.2	82.5	85.2	87.9	88.9	89.9	90.1	90.2	90.7
>= 500	11.2	78.5	83.2	86.2	89.3	90.3	91.4	91.7	91.8	92.7
>= 400	11.2	78.5	83.6	87.2	90.3	91.5	92.8	93.1	93.2	94.2
>= 300	11.2	78.5	83.6	87.4	91.0	92.3	94.2	94.7	95.8	96.2
>= 200	11.2	78.5	83.6	87.4	91.2	92.6	94.6	95.2	95.3	97.0
>= 100	11.2	78.5	83.6	87.4	91.2	92.6	94.6	95.3	95.4	97.2
>= 0	11.2	78.5	83.6	87.4	91.2	92.6	94.6	95.3	95.4	97.2

TOTAL NO. OF OBS : 1253



## 2 - CEILING VS VISIBILITY

013750 : NORFOLK, VA  
PERIOD OF RECORD : 1945-1986  
CLASS : ALL WEATHER  
CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : JAN  
HOUR : 0400 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)									
	>=10	>=6	>=5	>=4	>=3	>=2 1/2	>=2 1/2	>=1 1/2	>=1 1/4	>=1
UNLIMIT	8.5	49.6	50.9	52.0	52.5	52.7	52.9	53.0	53.1	53.1
>=20000	8.9	52.0	53.2	54.3	55.0	55.1	55.4	55.5	55.5	53.1
>=18000	8.9	52.1	53.4	54.5	55.1	55.3	55.5	55.6	55.7	55.5
>=16000	8.9	52.3	53.5	54.7	55.3	55.5	55.7	55.8	55.9	55.7
>=14000	9.2	52.7	53.9	55.1	55.7	55.9	56.1	56.2	56.3	55.9
>=12000	9.4	54.7	56.1	57.2	57.8	58.1	58.3	58.4	58.5	56.3
>=10000	9.6	57.5	59.0	60.2	60.8	61.0	61.3	61.4	61.4	58.5
>=9000	9.6	57.6	59.3	60.4	61.0	61.3	61.5	61.6	61.7	58.5
>=8000	9.9	61.0	62.9	64.1	64.9	65.1	65.4	65.5	65.6	61.4
>=7000	10.0	62.4	64.5	65.6	66.5	66.7	67.0	67.1	67.2	61.7
>=6000	10.1	63.5	65.7	66.8	67.9	68.1	68.4	68.5	68.6	65.6
>=5000	10.4	65.3	67.6	68.9	70.1	70.4	70.8	70.8	70.9	67.3
>=4500	10.5	66.3	68.6	70.0	71.2	71.6	72.0	72.0	72.1	68.7
>=4000	10.5	67.9	70.4	72.0	73.4	73.8	74.1	74.2	74.3	71.0
>=3500	10.5	68.6	71.4	72.9	74.3	74.7	75.1	75.1	75.2	72.2
>=3000	10.5	70.0	73.1	74.8	76.4	76.8	77.1	77.2	77.3	74.3
>=2500	10.6	71.2	74.3	76.3	78.0	78.4	78.7	78.8	78.9	75.3
>=2000	10.6	72.6	76.0	78.1	79.8	80.3	80.8	80.9	81.0	77.4
>=1800	10.7	72.9	76.4	78.5	80.2	80.7	81.2	81.3	81.4	79.0
>=1500	10.7	74.3	77.8	79.8	81.8	82.2	82.8	82.9	83.0	81.0
>=1200	10.7	75.1	78.7	80.9	82.9	83.4	84.0	84.1	84.2	81.4
>=1000	10.7	75.9	79.8	82.1	84.6	85.2	85.8	85.9	86.1	83.0
>=900	10.7	76.3	80.3	83.0	85.3	85.9	86.6	86.7	86.9	84.4
>=800	10.7	77.2	81.5	84.3	86.9	87.5	88.4	88.4	88.6	86.2
>=700	10.7	77.5	82.1	84.9	87.7	88.3	89.3	89.4	89.6	87.0
>=600	10.7	77.5	82.3	85.3	88.4	88.9	90.1	90.3	90.6	88.8
>=500	10.7	77.6	82.9	86.3	89.5	90.2	91.6	92.0	92.4	89.8
>=400	10.7	77.7	83.3	86.8	90.3	91.1	92.8	93.5	94.0	90.8
>=300	10.7	77.7	83.4	86.9	90.8	91.6	93.6	94.4	95.3	92.5
>=200	10.7	77.7	83.5	86.9	90.8	91.8	93.9	94.9	96.3	94.4
>=100	10.7	77.7	83.5	86.9	90.8	91.8	93.9	95.0	96.4	95.9
>=0	10.7	77.7	83.5	86.9	90.8	91.8	93.9	95.0	96.4	97.0

TOTAL NO. OF OBS : 1255



## 2 - CEILING VS VISIBILITY

013750 : NORFOLK, VA  
PERIOD OF RECORD : 1945-1986  
CLASS : ALL WEATHER  
CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : JAN  
HOUR : 0700 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)															
	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=1	1/2	>=1	1/4	>=1	>=3/4	>=5/8	>=1/2	>=5/16
UNLIMIT	5.4	38.3	42.1	43.5	44.7	45.0	45.6	46.2	46.3	46.5	46.6	46.7	46.6	46.7	46.7	46.7
>=20000	5.8	40.9	44.8	46.4	47.8	48.0	48.9	49.5	49.6	49.8	49.9	50.0	49.9	50.0	50.0	50.0
>=18000	5.9	41.1	45.0	46.6	47.9	48.2	49.0	49.7	49.8	49.9	50.1	50.2	50.1	50.2	50.2	50.3
>=16000	6.0	41.2	45.0	46.6	48.0	48.2	49.1	49.8	49.8	50.0	50.2	50.2	50.2	50.2	50.2	50.4
>=14000	6.0	41.5	45.4	47.0	48.4	48.6	49.5	50.2	50.2	50.4	50.6	50.6	50.6	50.6	50.6	50.8
>=12000	6.3	43.4	47.4	49.1	50.6	50.8	51.7	52.3	52.5	52.6	52.8	52.9	52.9	52.9	52.9	53.0
>=10000	6.9	47.7	52.0	53.8	55.4	55.6	56.5	57.2	57.4	57.5	57.7	57.8	57.7	57.8	57.8	57.9
>=9000	7.1	48.2	52.5	54.3	55.8	56.1	57.0	57.7	57.9	58.0	58.2	58.3	58.2	58.3	58.3	58.4
>=8000	7.1	51.8	56.3	58.3	59.9	60.3	61.3	62.1	62.3	62.4	62.6	62.7	62.6	62.7	62.7	62.8
>=7000	7.3	53.2	57.9	60.1	61.8	62.1	63.1	63.9	64.1	64.3	64.4	64.5	64.4	64.5	64.5	64.7
>=6000	7.4	54.1	59.2	61.5	63.2	63.5	64.7	65.5	65.6	65.8	65.9	66.0	65.9	66.0	66.0	66.2
>=5000	7.4	55.7	61.0	63.5	65.2	65.5	66.7	67.5	67.6	67.8	67.9	68.0	68.0	68.0	68.0	68.2
>=4500	7.4	56.2	61.5	64.1	65.9	66.2	67.3	68.1	68.3	68.4	68.6	68.7	68.7	68.7	68.7	68.8
>=4000	7.5	58.6	64.2	66.9	68.7	69.1	70.2	71.0	71.2	71.6	71.7	71.8	71.7	71.8	71.8	72.0
>=3500	7.5	59.9	65.6	68.4	70.4	70.8	72.0	72.8	73.0	73.3	73.5	73.6	73.5	73.6	73.6	73.7
>=3000	7.5	61.6	67.5	70.6	72.6	73.0	74.3	75.1	75.3	75.6	75.8	75.9	75.9	75.9	75.9	76.0
>=2500	7.5	62.3	68.5	71.6	73.9	74.4	75.6	76.4	76.7	77.1	77.2	77.3	77.2	77.3	77.3	77.5
>=2000	7.5	63.6	70.0	73.2	75.6	76.1	77.5	78.3	78.5	78.9	79.1	79.2	79.2	79.2	79.2	79.3
>=1800	7.5	63.8	70.2	73.5	76.0	76.5	77.9	78.7	78.9	79.3	79.5	79.6	79.6	79.6	79.6	79.7
>=1500	7.5	64.7	71.3	74.8	77.4	77.9	79.3	80.4	80.6	81.1	81.3	81.3	81.3	81.3	81.3	81.5
>=1200	7.5	65.9	72.7	76.2	78.8	79.5	81.1	82.3	82.5	83.0	83.2	83.3	83.3	83.3	83.3	83.4
>=1000	7.5	66.7	73.8	77.6	80.4	81.2	83.0	84.3	84.5	85.0	85.2	85.3	85.3	85.3	85.3	85.4
>=900	7.5	67.0	74.1	77.9	80.9	81.7	83.5	84.8	85.0	85.5	85.7	85.7	85.7	85.7	85.7	85.9
>=800	7.5	67.3	74.5	78.5	81.8	82.5	84.7	86.1	86.4	86.9	87.0	87.2	87.0	87.2	87.2	87.3
>=700	7.5	67.5	75.2	79.6	82.9	83.8	86.2	87.8	88.1	88.5	88.8	88.9	88.8	89.0	89.0	89.2
>=600	7.5	67.5	75.8	80.5	84.1	85.1	87.7	89.3	89.6	90.1	90.4	90.5	90.4	90.6	90.6	90.8
>=500	7.5	67.9	76.3	81.7	85.7	86.9	89.7	91.5	91.7	92.3	92.8	92.9	93.1	93.1	93.1	93.3
>=400	7.5	67.9	76.4	82.1	86.5	87.8	91.3	93.2	93.4	94.2	94.6	94.8	95.0	95.0	95.0	95.2
>=300	7.5	67.9	76.4	82.2	87.0	88.5	92.2	94.5	94.9	95.6	96.2	96.3	96.6	96.6	96.6	96.7
>=200	7.5	67.9	76.5	82.4	87.2	88.6	92.4	94.8	95.2	96.1	96.9	97.1	97.5	97.6	97.6	97.9
>=100	7.5	67.9	76.6	82.5	87.3	88.7	92.5	95.0	95.4	96.4	97.2	97.4	98.3	98.4	98.4	98.9
>=0	7.5	67.9	76.6	82.5	87.3	88.7	92.5	95.0	95.4	96.4	97.2	97.4	98.3	98.4	98.4	100.0

TOTAL NO. OF OBS : 1248



## 2 - CEILING VS VISIBILITY

013750 : NORFOLK, VA  
PERIOD OF RECORD : 1945-1986  
CLASS : ALL WEATHER  
CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : JAN  
HOUR : 1000 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)															
	>=10	>=6	>=5	>=4	>=3	>=2 1/2	>=2	>=1 1/2	>=1	>=3/4	>=5/8	>=1/2	>=5/16	>=1/4	>=0	
UNLIMIT	6.2	37.7	41.1	42.9	44.2	44.2	44.5	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
>=20000	7.0	41.4	45.1	47.4	48.8	48.8	49.2	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7
>=18000	7.0	41.5	45.1	47.5	48.9	48.9	49.3	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8	49.8
>=16000	7.1	41.6	45.3	47.7	49.2	49.2	49.6	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1
>=14000	7.1	42.1	45.9	48.4	49.8	49.8	50.2	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7	50.7
>=12000	7.5	44.2	48.1	50.7	52.4	52.4	52.8	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2	53.2
>=10000	7.6	47.1	51.3	54.1	56.1	56.2	56.6	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1
>=9000	7.6	47.4	51.6	54.5	56.5	56.6	57.1	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5
>=8000	7.9	51.9	56.7	60.0	62.6	62.7	63.2	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8
>=7000	7.9	52.7	57.7	61.2	63.8	64.0	64.7	65.3	65.3	65.4	65.5	65.5	65.5	65.5	65.5	65.5
>=6000	8.1	53.6	59.0	62.6	65.2	65.5	66.1	66.8	66.8	66.9	66.9	66.9	66.9	66.9	66.9	66.9
>=5000	8.2	54.4	59.9	63.8	66.5	66.8	67.6	68.3	68.3	68.4	68.5	68.5	68.5	68.5	68.5	68.5
>=4500	8.2	55.0	60.7	64.7	67.4	67.7	68.5	69.2	69.2	69.3	69.4	69.4	69.4	69.4	69.4	69.4
>=4000	8.2	56.8	63.1	67.3	70.4	70.7	71.6	72.3	72.3	72.4	72.4	72.4	72.4	72.4	72.4	72.4
>=3500	8.2	57.4	63.8	68.1	71.2	71.6	72.4	73.1	73.1	73.2	73.3	73.3	73.3	73.3	73.3	73.3
>=3000	8.3	58.8	65.6	70.3	73.7	74.1	75.0	75.9	76.2	76.2	76.3	76.3	76.3	76.3	76.3	76.3
>=2500	8.3	59.4	66.9	71.8	75.3	76.0	77.0	78.0	78.2	78.2	78.3	78.3	78.3	78.3	78.3	78.3
>=2000	8.5	60.4	68.2	73.3	76.9	77.7	78.8	79.8	80.1	80.1	80.2	80.2	80.2	80.2	80.2	80.2
>=1800	8.6	60.7	68.6	73.7	77.3	78.1	79.3	80.2	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6
>=1500	8.7	61.5	69.7	74.8	78.4	79.3	80.4	81.4	81.7	81.7	81.8	81.8	81.8	81.8	81.8	81.8
>=1200	8.8	62.4	70.7	75.9	79.7	80.6	81.8	82.8	83.1	83.1	83.2	83.2	83.2	83.2	83.2	83.2
>=1000	8.8	63.5	72.2	77.6	82.1	83.0	84.4	85.5	86.0	86.0	86.1	86.1	86.1	86.1	86.1	86.1
>=900	8.8	63.7	72.5	78.0	82.7	83.6	85.2	86.2	86.7	86.7	86.8	86.8	86.8	86.8	86.8	86.8
>=800	8.8	64.1	73.0	78.5	83.8	84.8	86.3	87.5	88.0	88.0	88.1	88.1	88.1	88.1	88.1	88.1
>=700	8.8	64.4	73.5	79.2	84.7	85.7	87.6	88.9	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5
>=600	8.8	64.7	73.8	79.7	85.5	86.7	88.8	90.2	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8
>=500	8.8	64.9	74.2	80.4	87.0	88.3	90.7	92.2	92.9	92.9	92.9	93.1	93.2	93.3	93.3	93.3
>=400	8.8	64.9	74.2	80.6	87.4	89.0	91.7	93.5	94.5	94.7	94.9	95.3	95.4	95.5	95.5	95.5
>=300	8.8	64.9	74.2	80.8	87.8	89.6	92.5	94.5	96.0	96.6	96.8	97.2	97.4	97.6	97.6	97.6
>=200	8.8	64.9	74.2	80.8	87.8	89.6	92.6	94.7	96.3	97.2	97.3	98.1	98.5	98.8	98.9	98.9
>=100	8.8	64.9	74.2	80.8	87.8	89.6	92.6	94.7	96.4	97.2	97.4	98.2	98.7	99.1	99.6	99.6
>=0	8.8	64.9	74.2	80.8	87.8	89.6	92.6	94.7	96.4	97.2	97.4	98.3	98.8	99.3	100.0	100.0

TOTAL NO. OF OBS : 1234



## 2 - CEILING VS VISIBILITY

013750 : NORFOLK, VA  
PERIOD OF RECORD : 1945-1986  
CLASS : ALL WEATHER  
CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : JAN  
HOUR : 1300 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)									
	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=1	1/2	>=1
UNLIMIT	9.4	43.3	45.6	46.4	46.7	46.7	46.7	46.7	46.7	46.7
>=20000	10.7	48.6	51.3	52.3	52.6	52.7	52.7	52.7	52.7	52.7
>=18000	10.7	48.6	51.3	52.3	52.6	52.7	52.7	52.7	52.7	52.7
>=16000	10.7	48.7	51.5	52.5	52.7	52.8	52.9	52.9	52.9	52.9
>=14000	10.9	49.6	52.5	53.6	53.9	54.0	54.1	54.1	54.1	54.1
>=12000	11.2	52.2	55.4	56.6	56.9	57.0	57.1	57.1	57.1	57.1
>=10000	11.6	56.3	59.7	61.1	61.6	61.7	61.8	61.9	61.9	61.9
>= 9000	11.6	56.4	59.8	61.2	61.7	61.8	61.9	62.0	62.0	62.0
>= 8000	11.9	60.6	64.5	66.2	66.7	66.9	67.0	67.1	67.1	67.1
>= 7000	12.1	61.9	66.0	68.0	68.4	68.5	68.9	69.0	69.0	69.0
>= 6000	12.1	62.8	67.1	69.2	69.8	70.0	70.4	70.5	70.5	70.5
>= 5000	12.2	63.5	68.2	70.5	71.1	71.3	71.6	71.7	71.8	71.8
>= 4500	12.2	63.8	68.6	70.9	71.6	71.8	72.2	72.3	72.4	72.4
>= 4000	12.3	65.3	70.5	73.0	73.6	73.8	74.3	74.4	74.5	74.5
>= 3500	12.4	66.2	71.3	73.8	74.6	74.8	75.2	75.4	75.5	75.5
>= 3000	12.6	68.2	73.8	76.7	77.7	78.0	78.4	78.5	78.6	78.6
>= 2500	12.6	69.0	74.7	77.6	78.7	78.9	79.3	79.5	79.6	79.6
>= 2000	12.7	70.1	75.9	79.3	80.7	81.0	81.5	81.7	81.8	81.8
>= 1800	12.7	70.1	75.9	79.5	80.9	81.2	81.8	81.9	82.0	82.0
>= 1500	12.7	71.0	77.1	80.8	82.2	82.6	83.4	83.5	83.7	83.7
>= 1200	12.7	71.8	78.0	82.0	83.7	84.2	85.0	85.2	85.5	85.6
>= 1000	12.7	72.8	79.1	83.5	85.4	86.0	86.9	87.3	87.7	87.8
>= 900	12.7	73.0	79.4	84.0	86.0	86.7	87.6	88.0	88.3	88.5
>= 800	12.7	73.5	80.1	85.0	87.4	88.2	89.3	89.7	90.0	90.2
>= 700	12.7	73.6	80.2	85.4	88.1	89.0	90.4	90.8	91.1	91.4
>= 600	12.7	73.8	80.5	86.0	88.9	89.8	91.4	91.9	92.3	92.7
>= 500	12.7	73.8	80.7	86.4	89.6	90.6	92.7	93.5	94.1	94.7
>= 400	12.7	73.9	80.8	86.7	90.2	91.2	93.5	94.4	95.3	96.3
>= 300	12.7	73.9	80.8	86.7	90.3	91.4	94.1	95.1	95.2	97.8
>= 200	12.7	73.9	80.8	86.8	90.5	91.5	94.3	95.2	96.4	98.8
>= 100	12.7	73.9	80.8	86.8	90.5	91.5	94.3	95.2	96.6	99.4
>= 0	12.7	73.9	80.8	86.8	90.5	91.5	94.3	95.2	97.5	100.0

TOTAL NO. OF OPS : 1239



## 2 - CEILING VS VISIBILITY

013750 : NORFOLK, VA  
PERIOD OF RECORD : 1945-1986  
CLASS : ALL WEATHER  
CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : JAN  
HOUR : 1600 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)									
	>=10	>=6	>=5	>=4	>=3	>=2 1/2	>=2	>=1 1/2	>=1 1/4	>=1
UNLIMIT	10.1	44.7	46.1	46.6	46.8	46.9	46.9	46.9	46.9	46.9
>=27000	11.9	49.5	51.0	51.8	52.1	52.2	52.2	52.2	52.2	52.2
>=18000	12.1	49.9	51.4	52.2	52.6	52.6	52.6	52.6	52.6	52.6
>=16000	12.1	50.2	51.8	52.6	53.0	53.0	53.0	53.0	53.0	53.0
>=14000	12.4	51.0	52.7	53.6	53.9	54.0	54.0	54.0	54.0	54.0
>=12000	12.6	53.0	55.1	56.0	56.4	56.4	56.4	56.4	56.4	56.4
>=10000	12.8	57.1	59.5	60.6	60.9	61.0	61.0	61.0	61.0	61.0
>= 9000	12.9	57.5	59.9	61.0	61.4	61.5	61.5	61.5	61.5	61.5
>= 8000	13.0	62.8	65.7	67.0	67.4	67.6	67.6	67.6	67.6	67.6
>= 7000	13.0	64.3	67.3	68.8	69.5	69.6	69.6	69.6	69.6	69.6
>= 6000	13.0	65.0	68.3	70.0	70.8	71.1	71.1	71.1	71.1	71.1
>= 5000	13.2	66.2	69.5	71.3	72.4	72.8	72.8	72.8	72.8	72.8
>= 4500	13.3	66.7	70.0	71.9	73.0	73.4	73.4	73.4	73.4	73.4
>= 4000	13.3	68.9	72.1	74.3	75.4	75.9	75.9	75.9	75.9	75.9
>= 3500	13.3	69.3	72.7	74.9	76.1	76.6	76.6	76.6	76.6	76.6
>= 3000	13.5	71.4	75.1	77.6	79.1	79.9	79.9	79.9	79.9	79.9
>= 2500	13.5	72.4	76.4	78.9	80.7	81.9	82.0	82.0	82.0	82.0
>= 2000	13.5	73.9	78.4	81.4	83.3	84.6	84.7	84.7	84.7	84.7
>= 1800	13.5	74.2	78.7	81.8	83.7	85.0	85.1	85.1	85.1	85.1
>= 1500	13.5	74.7	79.6	83.0	85.1	86.6	86.7	86.7	86.7	86.7
>= 1200	13.5	75.0	80.2	83.6	85.9	87.5	87.7	87.9	87.9	87.9
>= 1000	13.5	75.1	80.4	84.2	86.6	88.5	88.7	88.9	88.9	88.9
>= 900	13.5	75.3	80.8	85.0	87.4	89.4	89.6	89.8	89.8	89.8
>= 800	13.5	75.5	81.1	85.4	87.9	89.1	90.4	91.0	91.1	91.1
>= 700	13.5	75.6	81.6	86.0	88.7	89.9	91.4	92.1	92.3	92.4
>= 600	13.5	75.7	81.9	86.4	89.6	91.1	92.9	93.8	94.0	94.0
>= 500	13.5	75.7	81.9	86.8	90.3	93.7	94.5	95.1	95.2	95.3
>= 400	13.5	75.7	81.9	86.8	90.6	94.3	95.3	95.9	96.0	96.1
>= 300	13.5	75.7	82.0	87.0	90.9	92.6	96.3	97.2	97.8	98.0
>= 200	13.5	75.7	82.0	87.0	90.9	92.6	95.0	97.5	98.3	98.9
>= 100	13.5	75.7	82.0	87.0	90.9	92.6	95.1	97.6	98.6	99.8
>= 0	13.5	75.7	82.0	87.0	90.9	92.6	95.1	97.7	98.9	100.0

TOTAL NO. OF OBS : 1235



## 2 - CEILING VS VISIBILITY

013750 : NORFOLK, VA  
PERIOD OF RECORD : 1945-1986  
CLASS : ALL WEATHER  
CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : JAN  
HOUR : 1900 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)									
	>=10	>=6	>=5	>=4	>=3	>=2 1/2	>=2	>=1 1/2	>=1	>=1/4
UNLIMIT	7.1	48.1	49.5	50.5	51.2	51.2	51.2	51.2	51.2	51.2
>=20000	7.5	51.3	52.9	54.0	54.6	54.7	54.7	54.7	54.7	51.2
>=18000	7.5	51.5	53.0	54.1	54.8	54.9	54.9	54.9	54.9	54.7
>=16000	7.5	51.5	53.1	54.2	54.9	54.9	54.9	54.9	54.9	54.9
>=14000	7.6	52.1	53.7	54.9	55.6	55.7	55.7	55.7	55.7	54.9
>=12000	8.3	54.9	55.5	58.0	58.6	58.7	58.7	58.7	58.7	55.7
>=10000	8.5	58.4	60.2	61.7	62.3	62.4	62.4	62.4	62.4	58.7
>=9000	8.5	58.4	60.3	61.8	62.4	62.5	62.5	62.5	62.5	58.7
>=8000	8.6	63.4	65.5	67.0	67.7	67.8	67.8	67.8	67.8	62.4
>=7000	8.7	64.4	66.7	68.2	68.9	69.0	69.0	69.0	69.0	62.5
>=6000	8.9	65.7	68.0	69.7	70.6	70.7	70.7	70.7	70.7	62.5
>=5000	8.9	67.6	70.1	72.0	72.9	72.9	72.9	72.9	72.9	62.4
>=4500	8.9	68.3	71.0	72.9	73.7	73.8	73.8	73.8	73.8	62.4
>=4000	8.9	70.1	73.1	75.1	76.1	76.3	76.3	76.3	76.3	62.5
>=3500	8.9	70.9	74.0	76.1	77.2	77.3	77.3	77.3	77.3	67.8
>=3000	9.1	73.3	76.5	79.0	80.2	80.3	80.4	80.4	80.4	69.0
>=2500	9.1	73.8	77.4	80.1	81.2	81.4	81.5	81.5	81.5	70.7
>=2000	9.2	74.9	78.9	82.0	83.3	83.5	83.8	83.8	83.8	72.9
>=1800	9.2	75.4	79.5	82.7	84.0	84.3	84.6	84.6	84.6	73.8
>=1500	9.2	76.1	80.6	83.8	85.1	85.5	85.8	85.8	85.8	73.8
>=1200	9.2	76.9	81.8	85.1	86.6	86.9	87.3	87.3	87.3	76.3
>=1000	9.2	77.3	82.4	85.9	87.5	87.9	88.3	88.4	88.4	77.3
>=900	9.2	77.7	82.9	86.5	88.2	88.6	89.0	89.2	89.2	77.3
>=800	9.2	78.2	83.5	87.3	89.1	89.5	90.1	90.2	90.2	80.4
>=700	9.2	78.6	84.1	88.1	90.3	90.9	91.6	91.9	91.9	81.5
>=600	9.2	78.7	84.6	88.8	91.2	91.8	92.6	92.9	92.9	81.5
>=500	9.2	78.8	85.1	89.6	92.2	92.9	94.1	94.4	94.4	83.8
>=400	9.2	79.0	85.3	90.0	92.7	93.3	94.9	95.4	96.0	84.6
>=300	9.2	79.0	85.4	90.0	92.9	93.5	95.4	96.2	96.9	85.8
>=200	9.2	79.0	85.4	90.1	92.9	93.6	95.7	96.8	97.7	85.8
>=100	9.2	79.0	85.4	90.1	92.9	93.7	95.8	96.9	97.8	87.3
>= 0	9.2	79.0	85.4	90.1	92.9	93.7	95.8	96.9	97.8	87.3

TOTAL NO. OF OBS : 1245



## 2 - CEILING VS VISIBILITY

013750 : NORFOLK, VA  
 PERIOD OF RECORD : 1945-1986  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
 MONTH : JAN  
 HOUR : 2200 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)									
	>=10	>=6	>=5	>=4	>=3	>=2 1/2	>=2	>=1 1/2	>=1	>=1/2
UNLIMIT	7.3	49.6	51.5	52.4	53.0	53.1	53.4	53.5	53.6	53.7
>=20000	7.6	52.0	53.9	54.9	55.5	55.6	55.8	56.0	56.1	56.2
>=18000	7.6	52.1	54.0	55.0	55.6	55.7	55.9	56.1	56.2	56.2
>=16000	7.6	52.2	54.2	55.1	55.8	55.8	56.1	56.2	56.3	56.4
>=14000	7.7	52.7	54.6	55.6	56.2	56.3	56.5	56.7	56.8	56.9
>=12000	8.0	54.8	56.9	57.8	58.5	58.6	58.9	59.0	59.1	59.2
>=10000	8.2	58.9	61.0	62.0	62.7	62.8	63.0	63.2	63.3	63.3
>=9000	8.2	59.0	61.2	62.1	62.9	63.0	63.3	63.4	63.5	63.6
>=8000	8.4	63.3	65.7	66.7	67.5	67.6	67.8	68.0	68.1	68.1
>=7000	8.5	64.5	67.0	68.1	68.8	68.9	69.2	69.3	69.4	69.5
>=6000	8.5	65.3	68.1	69.2	70.1	70.2	70.4	70.6	70.7	70.8
>=5000	8.6	66.8	69.7	70.9	72.0	72.0	72.3	72.4	72.5	72.6
>=4500	8.7	67.7	70.7	71.9	73.0	73.2	73.4	73.6	73.6	73.7
>=4000	8.8	69.5	72.8	74.1	75.3	75.5	75.7	75.9	76.0	76.0
>=3500	8.9	70.6	74.0	75.4	76.7	76.8	77.1	77.2	77.3	77.4
>=3000	8.9	72.4	76.1	77.6	78.8	79.0	79.2	79.4	79.5	79.6
>=2500	8.9	74.1	77.8	79.4	80.7	80.8	81.1	81.2	81.3	81.4
>=2000	9.0	75.6	79.4	81.2	82.5	82.7	82.9	83.1	83.2	83.3
>=1800	9.0	75.6	79.4	81.2	82.7	82.8	83.1	83.2	83.3	83.5
>=1500	9.0	76.4	80.6	82.4	83.9	84.1	84.4	84.7	84.8	84.9
>=1200	9.0	77.2	81.6	83.6	85.1	85.4	85.8	86.0	86.3	86.3
>=1000	9.0	77.6	82.3	84.3	86.1	86.4	86.8	87.1	87.4	87.5
>=900	9.0	77.8	82.7	84.8	86.7	87.0	87.4	87.7	87.9	88.0
>=800	9.0	78.2	83.5	85.8	87.7	88.0	88.5	88.8	89.0	89.2
>=700	9.0	78.4	84.0	86.5	88.7	89.0	89.5	89.8	90.1	90.3
>=600	9.0	78.7	84.5	87.1	89.5	89.9	90.4	90.7	90.9	91.2
>=500	9.0	79.2	85.4	88.3	90.9	91.5	92.3	92.6	92.7	93.1
>=400	9.0	79.3	85.6	88.6	91.6	92.3	93.5	93.9	94.1	94.6
>=300	9.0	79.4	85.9	88.9	91.9	92.7	94.4	95.1	95.3	96.2
>=200	9.0	79.4	85.9	88.9	91.9	92.7	94.8	95.7	95.8	97.3
>=100	9.0	79.4	85.9	88.9	91.9	92.7	94.8	95.8	96.6	97.8
>=0	9.0	79.4	85.9	88.9	91.9	92.7	94.8	95.8	96.6	97.8

TOTAL NO. OF OBS : 1252



## 2 - CEILING VS VISIBILITY

013750 : NORFOLK, VA  
 PERIOD OF RECORD : 1945-1986  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
 MONTH : JAN  
 HOUR : ALL

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

## VISIBILITY (STATUTE MILES)

CEILING	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=1	>=3/4	>=5/8	>=1/2	>=5/16	>=1/4	>=0
UNLIMIT	7.9	45.1	47.2	48.3	49.0	49.1	49.4	49.5	49.6	49.6	49.7	49.7	49.7	49.7
>=20000	8.6	48.4	50.7	51.9	52.7	52.8	53.1	53.3	53.3	53.4	53.4	53.4	53.4	53.5
>=18000	8.6	48.5	50.8	52.1	52.9	53.0	53.2	53.4	53.5	53.5	53.5	53.5	53.6	53.6
>=16000	8.6	48.7	51.0	52.3	53.0	53.2	53.4	53.6	53.7	53.7	53.7	53.7	53.7	53.8
>=14000	8.8	49.2	51.6	52.9	53.7	53.8	54.1	54.3	54.3	54.4	54.4	54.4	54.4	54.4
>=12000	9.1	51.4	53.9	55.3	56.1	56.2	56.5	56.7	56.8	56.8	56.8	56.8	56.8	56.9
>=10000	9.4	55.1	57.8	59.3	60.2	60.3	60.6	60.8	60.9	60.9	60.9	60.9	60.9	61.0
>= 9000	9.4	55.3	58.0	59.5	60.5	60.6	60.9	61.1	61.2	61.2	61.2	61.2	61.2	61.3
>= 8000	9.6	59.6	62.6	64.3	65.4	65.5	65.9	66.1	66.2	66.2	66.2	66.2	66.2	66.3
>= 7000	9.7	60.8	64.0	65.8	66.9	67.1	67.5	67.7	67.8	67.9	67.9	67.9	67.9	67.9
>= 6000	9.8	61.8	65.2	67.1	68.3	68.5	68.9	69.1	69.2	69.3	69.3	69.3	69.3	69.4
>= 5000	9.9	63.2	66.8	68.9	70.2	70.4	70.8	71.1	71.2	71.2	71.3	71.3	71.3	71.3
>= 4500	10.0	63.9	67.6	69.6	71.0	71.3	71.7	72.0	72.1	72.1	72.1	72.1	72.1	72.2
>= 4000	10.0	65.8	69.8	72.0	73.5	73.8	74.2	74.5	74.6	74.6	74.7	74.7	74.7	74.7
>= 3500	10.1	66.6	70.7	72.9	74.5	74.8	75.2	75.5	75.6	75.7	75.7	75.7	75.7	75.8
>= 3000	10.1	68.4	72.8	75.3	77.0	77.4	77.8	78.1	78.2	78.3	78.3	78.3	78.4	78.4
>= 2500	10.2	69.3	73.9	76.6	78.4	78.8	79.3	79.6	79.7	79.8	79.9	79.9	79.9	79.9
>= 2000	10.2	70.6	75.5	78.4	80.3	80.8	81.4	81.7	81.9	81.9	82.0	82.0	82.0	82.0
>= 1800	10.3	70.9	75.8	78.8	80.8	81.2	81.8	82.1	82.3	82.4	82.4	82.4	82.4	82.5
>= 1500	10.3	71.7	76.9	80.0	82.0	82.5	83.2	83.6	83.8	83.9	83.9	83.9	83.9	83.9
>= 1200	10.3	72.5	77.9	81.1	83.3	83.8	84.6	85.0	85.2	85.3	85.4	85.4	85.4	85.4
>= 1000	10.3	73.2	78.8	82.2	84.6	85.3	86.2	86.6	86.7	87.0	87.1	87.1	87.1	87.1
>= 900	10.3	73.4	79.2	82.8	85.3	86.0	86.9	87.4	87.4	87.7	87.8	87.8	87.8	87.9
>= 800	10.3	74.0	79.9	83.6	86.4	87.1	88.2	88.7	88.8	89.1	89.2	89.3	89.3	89.3
>= 700	10.3	74.2	80.4	84.3	87.3	88.1	89.4	90.0	90.4	90.5	90.5	90.6	90.6	90.6
>= 600	10.3	74.4	80.8	84.9	88.1	89.0	90.5	91.1	91.2	91.5	91.7	91.8	91.8	91.9
>= 500	10.3	74.6	81.2	85.7	89.3	90.3	92.0	92.8	93.4	93.5	93.6	93.7	93.8	93.8
>= 400	10.3	74.6	81.4	86.1	90.0	91.1	93.1	94.0	94.8	95.0	95.3	95.3	95.4	95.4
>= 300	10.3	74.7	81.5	86.2	90.3	91.5	93.9	95.1	95.2	96.1	96.5	96.9	97.0	97.1
>= 200	10.3	74.7	81.5	86.3	90.4	91.6	94.2	95.5	95.6	96.7	97.2	97.8	98.1	98.2
>= 100	10.3	74.7	81.5	86.3	90.4	91.7	94.2	95.5	95.7	96.8	97.4	98.3	98.6	98.9
>= 0	10.3	74.7	81.5	86.3	90.4	91.7	94.2	95.5	95.7	96.8	97.5	98.3	98.7	100.0

TOTAL NO. OF OBS : 9961



# 1 - SURFACE WINDS

013750 : NORFOLK, VA  
 PERIOD OF RECORD : 1945-1986  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
 MONTH : FEB  
 HOUR : 0100 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

16 PT. DIR.	1	2	3	4	5	6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>=56	TOTAL %	MEAN WIND SPEED
N	.8	1.3	3.0	3.0	1.2	1.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	9.7	10.8
NNE	.5	.8	2.4	3.0	1.3	1.3	.4	.3	.0	.0	.0	.0	.0	.0	.0	8.7	12.5
NE	.4	1.1	2.3	.8	.3	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	5.0	8.8
ENE	.4	.8	.9	.4	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.7	7.8
E	.3	.6	1.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0	6.6
ESE	.6	.7	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	5.5
SE	1.1	.4	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0	4.8
SSE	1.5	2.2	.6	.4	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.8	5.2
S	1.0	2.0	2.7	1.7	.3	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	7.9	8.5
SSW	.8	2.0	5.4	3.0	.3	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	11.8	9.5
SW	.5	1.6	2.1	1.0	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	5.4	8.2
WSW	.6	.8	1.3	.9	.4	.4	.1	.2	.0	.0	.0	.0	.0	.0	.0	4.3	10.3
W	.3	1.9	2.0	1.9	.5	.5	.3	.0	.0	.0	.0	.0	.0	.0	.0	6.8	10.1
WNW	.3	1.1	1.3	1.1	.4	.4	.3	.0	.0	.0	.0	.0	.0	.0	.0	4.6	10.6
NW	.6	.6	1.5	2.0	.7	.7	.3	.0	.0	.0	.0	.0	.0	.0	.0	5.7	11.4
NNW	.3	.8	2.8	4.2	.8	.8	.2	.0	.0	.0	.0	.0	.0	.0	.0	8.9	11.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.9	.0
ALL	10.1	18.7	30.0	23.9	6.4	6.4	2.4	.5	.0	.0	.0	.0	.0	.0	.0	100.0	8.9

TOTAL NO. OF OBS : 1186

NOTES : \* = PERCENT < .05



# 1 - SURFACE WINDS

013750 : NORFOLK, VA  
PERIOD OF RECORD : 1945-1986  
CLASS : ALL WEATHER  
CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : FEB  
HOUR : 0400 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

DIR.	SPEED (KNOTS)										TOTAL %	MEAN WIND SPEED
	16-21	21-26	26-31	31-36	36-41	41-46	46-51	51-56	56-61	61-66		
N	.7	1.4	3.4	4.1	.9	.4	.1	.0	.0	.0	10.9	11.2
NNE	.4	1.1	2.4	2.9	1.9	.6	.1	.0	.0	.0	9.3	12.6
NE	.3	1.0	2.4	.9	.6	.1	.0	.0	.0	.0	5.3	9.8
ENE	.4	.8	.9	.8	.2	.0	.0	.0	.0	.0	3.1	8.0
E	.4	.8	.9	.2	.0	.0	.0	.0	.0	.0	2.3	6.5
ESE	.3	.6	.3	.0	.0	.0	.0	.0	.0	.0	1.1	5.4
SE	.2	.6	.4	.3	.2	.0	.0	.0	.0	.0	1.6	8.4
SSE	.5	1.2	.3	.4	.2	.0	.0	.0	.0	.0	2.6	7.1
S	1.1	1.9	2.2	1.1	.3	.1	.0	.0	.0	.0	6.8	8.2
SSW	1.0	1.7	3.9	1.8	.4	.2	.0	.0	.0	.0	8.9	8.9
SW	.6	2.4	1.9	1.9	.4	.0	.0	.0	.0	.0	7.2	8.4
WSW	.5	.8	1.9	1.2	.2	.0	.0	.0	.0	.0	4.6	8.9
W	.8	1.0	2.8	1.6	.9	.2	.1	.0	.0	.0	7.4	10.3
WNW	.4	1.0	1.8	2.1	.7	.2	.0	.0	.0	.0	6.2	10.7
NW	.3	1.1	2.0	1.7	.1	.3	.0	.0	.0	.0	5.4	10.1
NNW	.1	1.0	3.4	3.5	.5	.2	.0	.0	.0	.0	8.6	10.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
ALL	8.0	18.5	30.8	24.2	7.3	2.1	.3	.0	.0	.0	100.0	9.0

TOTAL NO. OF OBS : 1185

NOTES : \* = PERCENT < .05



# 1 - SURFACE WINDS

013750 : NORFOLK, VA  
 PERIOD OF RECORD : 1945-1986  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
 MONTH : FEB  
 HOUR : 0700 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

DIR.	1-5	6-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>56	TOTAL	MEAN WIND SPEED
N	.5	2.0	3.5	3.7	1.6	.3	.2	.1	.0	.0	11.9	11.5
NNE	.2	1.5	1.6	3.1	1.6	.5	.1	.0	.0	.0	8.6	12.3
NE	.8	.8	2.7	1.4	.3	.1	.0	.0	.0	.0	6.1	9.2
ENE	.3	1.1	.7	.8	.3	.1	.0	.0	.0	.0	3.3	9.3
E	.5	1.5	1.0	.3	.0	.0	.0	.0	.0	.0	3.4	6.5
ESE	.3	.2	.3	.2	.0	.0	.0	.0	.0	.0	.9	6.5
SE	.7	.9	.4	.3	.0	.0	.0	.0	.0	.0	2.3	5.8
SSE	.7	.7	.8	.3	.2	.0	.0	.0	.0	.0	2.6	7.2
S	.9	1.0	1.6	1.0	.3	.2	.0	.0	.0	.0	5.0	8.8
SSW	.8	1.7	3.3	2.4	.4	.1	.0	.0	.0	.0	8.8	9.4
SW	.5	2.1	2.6	1.8	.1	.0	.0	.0	.0	.0	7.1	8.6
WSW	.4	1.3	1.8	1.2	.3	.1	.0	.0	.0	.0	5.0	9.2
W	.3	1.4	2.4	2.6	.6	.1	.0	.0	.0	.0	7.3	10.4
WNW	.1	1.3	1.5	1.2	.7	.3	.0	.0	.0	.0	5.1	10.8
NW	.3	.8	2.0	1.3	.3	.2	.0	.0	.0	.0	5.0	9.7
NNW	.2	1.3	4.0	3.3	.6	.2	.0	.0	.0	.0	9.6	10.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
ALL	7.5	19.7	30.1	25.0	7.2	2.0	.3	.1	.0	.0	100.0	9.0

TOTAL NO. OF OBS : 1186

NOTES :  
 \* = PERCENT < .05



# 1 - SURFACE WINDS

013750 : NORFOLK, VA  
 PERIOD OF RECORD : 1945-1986  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
 MONTH : FEB  
 HOUR : 1000 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

DIR.	SPEED (KNOTS)																TOTAL	MEAN WIND SPEED
	16 PT.	1	2	3	4	5	6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>=56		
N	.4	2.5	3.0	4.9	2.0	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	13.5	11.8
NNE	.8	1.9	3.8	3.5	1.3	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	11.5	10.6
NE	.3	1.7	2.7	1.2	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.4	9.0
ENE	.2	1.1	1.3	.7	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.5	9.1
E	.3	.8	1.1	.7	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.0	8.8
ESE	.3	.4	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	7.1
SE	.3	.3	.7	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	8.1
SSE	.3	.7	1.3	1.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.5	8.8
S	.7	.7	1.8	1.4	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.7	9.0
SSW	.2	1.5	2.2	2.5	.8	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.7	11.0
SW	.3	1.9	1.9	1.9	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.3	9.5
WSW	.2	1.1	2.4	2.9	.8	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.5	11.4
W	.3	1.9	3.2	2.5	.6	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.6	9.8
WNW	.2	.5	1.3	3.1	1.0	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.6	13.0
NW	.3	.7	1.1	1.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.7	10.1
NNW	.3	.9	3.2	3.8	.7	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.0	11.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	.0
ALL	5.2	18.5	31.2	32.4	8.7	2.1	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	10.3

TOTAL NO. OF OBS : 1186

NOTES : \* = PERCENT < .05



# 1 - SURFACE WINDS

013750 : NORFOLK, VA  
 PERIOD OF RECORD : 1945-1986  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
 MONTH : FEB  
 HOUR : 1300 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

16 PT.	1	3	4	6	7-10	11-16	17-21	SPEED (KNOTS)				TOTAL				MEAN
DIR.	1	3	4	6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>=56	%	SPEED	
N	.3	3.0			3.0	3.7	1.2	.4	.0	.0	.0	.0	.0	11.6	10.6	
NNE	.3	3.9			4.6	3.5	1.7	.2	.1	.0	.0	.0	.0	14.2	10.1	
NE	.4	1.5			3.4	1.9	.2	.1	.0	.0	.0	.0	.0	7.4	9.2	
ENE	.3	1.3			2.0	.8	.3	.0	.0	.0	.0	.0	.0	4.6	8.3	
E	.3	.5			1.6	.4	.2	.0	.0	.0	.0	.0	.0	3.0	8.6	
ESE	.2	.4			.3	.3	.0	.0	.0	.0	.0	.0	.0	1.2	7.8	
SE	.0	.5			.3	.1	.0	.0	.0	.0	.0	.0	.0	.9	6.8	
SSE	.3	.1			.8	.7	.3	.0	.0	.0	.0	.0	.0	2.1	10.0	
S	.2	.7			2.0	1.7	.2	.3	.0	.0	.0	.0	.0	5.0	10.7	
SSW	.1	.5			1.4	2.4	.6	.4	.1	.0	.0	.0	.0	5.6	13.1	
SW	.1	.8			1.8	2.4	.6	.3	.2	.0	.0	.0	.0	6.2	12.4	
WSW	.3	1.1			1.9	2.9	.7	.1	.0	.0	.0	.0	.0	6.8	11.1	
W	.4	2.3			4.6	4.5	1.1	.2	.0	.0	.0	.0	.0	13.1	10.6	
WNW	.3	.7			1.5	4.0	1.9	.2	.0	.0	.0	.0	.0	8.6	12.9	
NW	.2	.3			.9	1.4	.2	.1	.0	.0	.0	.0	.0	3.0	11.4	
NNW	.3	.8			1.6	1.6	.7	.1	.0	.0	.0	.0	.0	5.1	10.7	
VAR	.0	.0			.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CLM	.0	.0			.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	.0	
ALL	3.8	18.5			31.9	32.1	9.6	2.3	.3	.0	.0	.0	.0	100.0	10.5	

TOTAL NO. OF OBS : 1186

NOTES : \* = PERCENT < .05



# 1 - SURFACE WINDS

013750 : NORFOLK, VA  
 PERIOD OF RECORD : 1945-1986  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
 MONTH : FEB  
 HOUR : 1600 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>=56	TOTAL	MEAN
N	.5	.9	1.5	2.7	1.2	.3	.1	.0	.0	.0	.0	7.2	11.8
NNE	.5	1.9	3.4	2.9	1.3	.2	.0	.0	.0	.0	.0	10.1	10.4
NE	.9	2.3	3.2	1.7	.3	.0	.0	.0	.0	.0	.0	8.4	8.3
ENE	.9	3.4	3.2	.9	.2	.1	.0	.0	.0	.0	.0	8.7	7.1
E	.6	3.7	3.1	.9	.0	.0	.0	.0	.0	.0	.0	8.3	7.0
ESE	.2	.3	.7	.6	.0	.1	.0	.0	.0	.0	.0	1.9	9.7
SE	.1	.1	.8	.6	.2	.0	.0	.0	.0	.0	.0	1.7	10.8
SSE	.0	.4	.4	.8	.1	.1	.0	.0	.0	.0	.0	1.8	10.9
S	.1	.5	.8	1.3	.2	.1	.0	.0	.0	.0	.0	3.0	11.0
SSW	.2	.8	3.0	3.0	.8	.1	.1	.0	.0	.0	.0	7.9	11.5
SW	.2	.8	1.6	2.0	.6	.3	.0	.0	.0	.0	.0	5.5	11.5
WSW	.3	1.1	2.5	1.9	.8	.0	.0	.0	.0	.0	.0	6.7	10.6
W	.3	1.3	2.4	3.8	.8	.0	.0	.0	.0	.0	.0	8.6	10.8
WNW	.4	.5	2.1	3.9	.9	.4	.1	.0	.0	.0	.0	8.3	12.4
NW	.2	.8	1.8	1.9	.8	.2	.0	.0	.0	.0	.0	5.6	11.7
NNW	.3	.5	1.8	1.4	.4	.0	.1	.0	.0	.0	.0	4.6	10.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.8	.0
ALL	5.6	19.3	32.4	30.3	9.7	1.7	.3	.0	.0	.0	.0	100.0	10.0

TOTAL NO. OF OBS : 1186

NOTES :  
 \* = PERCENT < .05



# 1 - SURFACE WINDS

013750 : NORFOLK, VA  
 PERIOD OF RECORD : 1945-1986  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
 MONTH : FEB  
 HOUR : 1900 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

DIR.	SPEED (KNOTS)																TOTAL %	MEAN WIND SPEED
	16 PT.	1	2	3	4	5	6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>=56		
N	.3	1.2	1.8	2.8	1.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.4	11.6
NNE	.3	1.5	2.9	2.5	.8	.7	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.8	11.4
NE	.8	1.8	1.7	1.3	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.8	8.1
ENE	1.0	1.3	1.4	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.2	6.5
E	2.3	2.3	1.1	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.2	5.2
ESE	.3	2.2	1.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.8	6.3
SE	1.2	2.6	1.6	.4	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.0	6.4
SSE	1.4	2.1	2.7	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.2	7.0
S	.6	1.6	2.5	1.6	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.6	8.8
SSW	.5	1.9	2.4	1.6	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.0	9.1
SW	.7	1.4	1.4	.9	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.7	8.3
WSW	.4	.8	1.8	.6	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.9	8.4
W	.5	1.3	2.7	1.4	.7	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.8	10.1
WNW	.3	1.0	1.5	1.9	.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.1	10.6
NW	.0	.7	1.9	1.3	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.5	11.0
NNW	.4	.5	1.8	1.9	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.0	10.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.0	.0
ALL	10.9	24.2	30.2	19.9	5.5	2.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	8.2

TOTAL NO. OF OBS : 1183

NOTES : \* = PERCENT < .05



# 1 - SURFACE WINDS

013750 : NORFOLK, VA  
 PERIOD OF RECORD : 1945-1986  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
 MONTH : FEB  
 HOUR : 2200 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

DIR.	SPEED (KNOTS)																TOTAL	MEAN
	16-21	21-26	26-31	31-36	36-41	41-46	46-51	51-56	56-61	61-66	66-71	71-76	76-81	81-86	86-91	91-96		
N	.4	1.4	2.4	3.3	1.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.0	11.5
NNE	.2	.8	2.8	2.6	1.3	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.3	12.7
NE	.5	1.1	1.0	.8	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.0	9.2
ENE	.5	1.3	1.3	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.8	7.2
E	1.3	1.1	.8	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.6	5.6
ESE	.8	.5	.7	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0	5.4
SE	1.4	1.8	.8	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.4	5.5
SSE	1.3	2.7	1.2	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.3	6.6
S	.8	3.3	3.0	2.6	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.9	8.1
SSW	.8	1.5	2.9	3.1	1.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.5	10.2
SW	.6	1.7	1.9	1.1	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.8	8.6
WSW	.1	.8	1.1	.9	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.5	11.0
W	.4	1.5	1.9	1.9	.8	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.6	10.3
WNW	.2	.5	1.3	1.4	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.9	11.3
NW	.4	.5	1.2	2.3	.5	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.2	11.7
NNW	.3	1.2	2.1	2.2	.8	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.8	10.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.6	.0
ALL	9.9	21.7	26.4	24.8	7.5	1.8	.1	.3	.0	.0	.0	.0	.0	.0	.0	.0	100.0	8.8

TOTAL NO. OF OBS : 1182

NOTES :  
 \* = PERCENT < .05



# 1 - SURFACE WINDS

013750 : NORFOLK, VA  
 PERIOD OF RECORD : 1945-1986  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
 MONTH : FEB  
 HOUR : ALL

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

16 PT.	1	- 3	4	- 6	7-10	11-16	17-21	SPEED (KNOTS)					TOTAL					MEAN
DIR.	1	- 3	4	- 6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>=56	%	WIND	SPEED		
N	.5		1.7		2.7	3.5	1.3	.3	.1	.0*	.0	.0	.0	10.1	11.3			
NNE	.4		1.7		3.0	3.0	1.4	.4	.1	.0*	.0	.0	.0	9.9	11.4			
NE	.6		1.4		2.4	1.3	.4	.1	.0	.0	.0	.0	.0	6.1	8.9			
ENE	.5		1.4		1.5	.7	.2	.0*	.0	.0	.0	.0	.0	4.3	7.8			
E	.7		1.4		1.3	.4	.1	.0	.0	.0	.0	.0	.0	4.0	6.7			
ESE	.4		.7		.5	.2	.0*	.0*	.0	.0	.0	.0	.0	1.7	6.7			
SE	.6		.9		.7	.3	.1	.0*	.0	.0	.0	.0	.0	2.6	6.7			
SSE	.7		1.3		1.0	.7	.1	.0*	.0	.0	.0	.0	.0	3.9	7.3			
S	.7		1.5		2.1	1.6	.2	.1	.0*	.0	.0	.0	.0	6.1	8.9			
SSW	.5		1.4		3.1	2.5	.6	.2	.0*	.0	.0	.0	.0	8.4	10.2			
SW	.4		1.6		1.9	1.6	.3	.1	.0*	.0	.0	.0	.0	6.0	9.4			
WSW	.3		1.0		1.8	1.6	.5	.1	.0*	.0*	.0	.0	.0	5.3	10.3			
W	.4		1.6		2.8	2.5	.8	.1	.0*	.0	.0	.0	.0	8.2	10.3			
WNW	.3		.8		1.6	2.3	.8	.3	.0*	.0	.0	.0	.0	6.0	11.8			
NW	.3		.7		1.6	1.7	.4	.2	.0	.0	.0	.0	.0	4.8	10.9			
NNW	.3		.9		2.6	2.7	.6	.1	.0*	.0	.0	.0	.0	7.2	10.8			
VAR	.0		.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
CLM	.0		.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	5.5	.0			
ALL	7.6	19.9	30.4		26.6	7.6	2.1	.3	.0*	.0	.0	.0	.0	100.0	9.3			

TOTAL NO. OF OBS : 9480

NOTES : \* = PERCENT < .05



## 2 - CEILING VS VISIBILITY

013750 : NORFOLK, VA  
PERIOD OF RECORD : 1945-1986  
CLASS : ALL WEATHER  
CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : FEB  
HOUR : 0100 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)									
	>=10	>=6	>=5	>=4	>=3	>=2 1/2	>=1 1/2	>=1 1/4	>=1	>=3/4
UNLIMIT	8.4	49.5	51.7	52.9	53.8	53.9	54.2	54.5	54.6	54.6
>=20000	8.5	51.8	53.9	55.2	56.1	56.3	56.6	56.9	57.0	57.0
>=18000	8.5	51.8	54.0	55.3	56.2	56.4	56.7	57.0	57.1	57.1
>=16000	8.5	51.9	54.1	55.4	56.3	56.5	56.8	57.1	57.2	57.2
>=14000	8.5	52.2	54.4	55.7	56.6	56.8	57.2	57.5	57.6	57.6
>=12000	8.8	53.9	56.1	57.4	58.4	58.6	59.0	59.3	59.4	59.4
>=10000	8.9	56.5	58.8	60.2	61.3	61.4	61.9	62.1	62.2	62.2
>= 9000	8.9	57.2	59.6	61.0	62.1	62.3	62.7	63.0	63.1	63.2
>= 8000	9.1	60.4	63.0	64.7	65.9	66.1	66.5	66.8	66.8	66.9
>= 7000	9.2	61.5	64.1	65.9	67.1	67.3	67.7	68.0	68.0	68.1
>= 6000	9.2	62.6	65.2	67.1	68.4	68.6	69.0	69.2	69.3	69.4
>= 5000	9.4	65.3	68.0	69.8	71.2	71.4	71.8	72.1	72.2	72.2
>= 4500	9.5	66.2	69.1	71.0	72.3	72.5	72.9	73.2	73.3	73.4
>= 4000	9.5	67.1	70.2	72.2	73.5	73.7	74.1	74.4	74.5	74.6
>= 3500	9.6	68.3	71.6	73.5	75.0	75.1	75.7	75.9	76.0	76.0
>= 3000	9.8	69.8	73.3	75.2	76.8	76.9	77.5	77.7	77.8	77.9
>= 2500	9.8	71.0	74.6	76.6	78.1	78.3	78.8	79.2	79.3	79.4
>= 2000	9.9	72.9	76.5	78.6	80.4	80.5	81.1	81.4	81.5	81.7
>= 1800	9.9	73.6	77.2	79.5	81.1	81.2	81.7	82.1	82.2	82.3
>= 1500	10.1	74.7	78.5	80.9	82.5	82.8	83.3	83.6	83.7	83.8
>= 1200	10.1	75.9	79.7	82.2	83.8	84.3	84.8	85.2	85.3	85.4
>= 1000	10.1	76.1	80.2	83.0	84.7	85.4	86.0	86.4	86.5	86.6
>= 900	10.2	76.3	80.5	83.4	85.1	85.8	86.4	86.7	86.8	86.9
>= 800	10.2	76.7	81.1	84.2	85.9	86.6	87.2	87.7	87.8	87.9
>= 700	10.2	76.9	81.5	84.7	86.6	87.5	88.3	88.8	88.9	89.0
>= 600	10.2	77.2	81.9	85.3	87.4	88.5	89.5	90.0	90.1	90.2
>= 500	10.2	77.2	82.2	85.7	88.0	89.1	90.2	90.7	90.9	91.0
>= 400	10.2	77.4	82.6	86.4	89.2	90.5	91.9	92.6	92.8	92.9
>= 300	10.2	77.5	82.8	86.8	90.1	91.4	93.2	94.4	95.0	95.2
>= 200	10.2	77.5	82.9	87.0	90.2	91.7	93.7	95.2	96.2	96.5
>= 100	10.2	77.5	82.9	87.0	90.2	91.7	93.7	95.3	96.4	96.8
>= 0	10.2	77.5	82.9	87.0	90.2	91.7	93.7	95.3	96.4	96.8

TOTAL NO. OF OBS : 1167



## 2 - CEILING VS VISIBILITY

013750 : NORFOLK, VA  
PERIOD OF RECORD : 1945-1986  
CLASS : ALL WEATHER  
CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : FEB  
HOUR : 0400 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

## VISIBILITY (STATUTE MILES)

CEILING	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=1	1/4	>=1	>=3/4	>=5/8	>=1/2	>=5/16	>=1/4	>=0
UNLIMIT	8.4	49.7	51.8	52.7	53.3	53.5	53.7	53.9	53.9	54.3	54.3	54.3	54.3	54.3	54.3	54.6
>=20000	8.6	51.9	54.1	55.0	55.6	55.8	56.1	56.3	56.3	56.7	56.8	56.8	56.8	56.8	56.8	57.1
>=18000	8.6	51.9	54.1	55.0	55.6	55.8	56.1	56.3	56.3	56.7	56.8	56.8	56.8	56.8	56.8	57.1
>=16000	8.7	52.1	54.3	55.2	55.8	56.0	56.3	56.5	56.5	56.9	57.0	57.0	57.0	57.0	57.0	57.3
>=14000	8.8	52.5	54.8	55.7	56.3	56.5	56.8	57.0	57.0	57.4	57.5	57.5	57.5	57.5	57.5	57.8
>=12000	8.9	53.5	55.9	56.9	57.6	57.8	58.1	58.3	58.3	58.7	58.8	58.8	58.8	58.8	58.8	59.1
>=10000	9.1	56.1	58.6	59.7	60.4	60.5	60.9	61.0	61.0	61.5	61.6	61.6	61.6	61.6	61.7	61.9
>=9000	9.1	56.4	59.0	60.2	60.9	61.0	61.4	61.6	61.6	62.0	62.1	62.1	62.1	62.1	62.2	62.4
>=8000	9.4	60.3	63.0	64.5	65.2	65.3	65.8	66.0	66.0	66.4	66.5	66.5	66.5	66.5	66.6	66.8
>=7000	9.5	61.3	64.1	65.7	66.5	66.6	67.1	67.2	67.2	67.7	67.8	67.8	67.8	67.8	67.8	68.1
>=6000	9.5	62.2	65.3	67.0	67.8	67.9	68.4	68.5	68.5	69.0	69.0	69.0	69.0	69.0	69.1	69.4
>=5000	9.5	64.1	67.4	69.5	69.9	70.1	70.5	70.7	70.7	71.1	71.2	71.2	71.3	71.3	71.4	71.6
>=4500	9.5	64.4	67.8	69.5	70.2	70.4	70.9	71.0	71.0	71.5	71.5	71.5	71.6	71.6	71.7	72.0
>=4000	9.6	66.6	70.2	71.9	72.7	72.8	73.3	73.4	73.4	73.9	73.9	73.9	74.0	74.0	74.1	74.4
>=3500	9.6	67.4	71.2	73.0	73.8	73.9	74.4	74.5	74.5	75.0	75.1	75.1	75.2	75.2	75.2	75.5
>=3000	9.7	69.5	73.4	75.3	76.3	76.6	77.0	77.2	77.2	77.7	77.8	77.8	77.9	77.9	78.0	78.2
>=2500	9.8	70.2	74.4	76.3	77.2	77.6	78.0	78.2	78.2	78.7	78.8	78.8	78.8	78.8	78.9	79.2
>=2000	9.8	72.4	76.6	78.8	79.8	80.1	80.7	80.8	80.8	81.3	81.4	81.4	81.5	81.5	81.6	81.9
>=1800	9.9	72.7	77.0	79.2	80.2	80.6	81.1	81.3	81.3	81.8	81.9	81.9	81.9	81.9	82.0	82.3
>=1500	9.9	73.2	77.6	80.0	81.3	81.8	82.3	82.5	82.5	83.0	83.1	83.1	83.2	83.2	83.3	83.6
>=1200	9.9	74.1	78.7	81.3	82.7	83.2	83.7	83.9	83.9	84.4	84.6	84.6	84.7	84.7	84.8	85.0
>=1000	9.9	74.6	79.4	82.5	83.9	84.4	85.1	85.4	85.4	85.9	86.1	86.1	86.2	86.2	86.5	86.8
>=900	9.9	74.7	79.5	82.6	84.1	84.6	85.4	85.6	85.6	86.2	86.3	86.3	86.4	86.4	86.5	86.8
>=800	10.0	75.0	79.8	83.2	84.9	85.4	86.3	86.6	86.6	87.1	87.3	87.3	87.4	87.4	87.4	87.7
>=700	10.0	75.5	80.6	84.4	86.1	86.7	87.7	88.0	88.0	88.5	88.7	88.7	88.7	88.7	88.8	89.1
>=600	10.0	75.9	81.0	85.1	87.0	87.6	88.7	88.9	88.9	89.4	89.7	89.7	89.8	89.8	89.9	90.1
>=500	10.0	76.1	81.5	85.7	88.0	88.7	89.9	90.2	90.2	90.8	91.1	91.1	91.1	91.1	91.2	91.5
>=400	10.0	76.3	82.2	86.4	89.0	89.9	91.4	91.7	91.7	92.4	92.7	92.7	92.8	92.8	92.9	93.1
>=300	10.0	76.4	82.6	87.2	90.0	91.1	93.1	93.5	93.5	94.4	94.8	94.8	94.8	94.8	95.0	95.3
>=200	10.0	76.4	82.6	87.2	90.0	91.1	93.2	93.6	93.6	94.7	95.2	95.3	95.5	95.5	95.9	96.1
>=100	10.0	76.4	82.6	87.2	90.0	91.1	93.3	93.8	93.9	94.9	95.8	95.9	96.4	96.5	97.1	97.7
>=0	10.0	76.4	82.6	87.2	90.0	91.1	93.3	93.8	93.9	94.9	95.8	95.9	96.5	96.6	97.2	100.0

TOTAL NO. OF OPS : 1163



## 2 - CEILING VS VISIBILITY

013750 : NORFOLK, VA  
PERIOD OF RECORD : 1945-1986  
CLASS : ALL WEATHER  
CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : FEB  
HOUR : 0700 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)																	
	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=1	1/2	>=1	>=3/4	>=5/8	>=1/2	>=5/16	>=1/4	>=0		
UNLIMIT	5.1	39.0	41.9	44.0	45.4	46.1	47.2	47.5	47.5	48.0	48.2	48.2	48.3	48.3	48.3	48.3		
>=20000	5.2	42.0	45.5	47.8	49.4	50.1	51.2	51.5	51.5	52.1	52.2	52.2	52.3	52.3	52.3	52.3		
>=18000	5.2	42.2	45.8	48.1	49.7	50.4	51.5	52.0	52.0	52.5	52.7	52.7	52.7	52.7	52.7	52.7		
>=16000	5.3	42.4	46.0	48.3	49.9	50.6	51.7	52.1	52.1	52.7	52.8	52.8	52.9	52.9	52.9	52.9		
>=14000	5.3	42.6	46.2	48.5	50.3	51.0	52.1	52.6	52.6	53.1	53.4	53.4	53.4	53.4	53.4	53.4		
>=12000	5.4	43.2	47.2	49.7	51.5	52.2	53.4	53.9	53.9	54.4	54.6	54.6	54.7	54.7	54.7	54.7		
>=10000	5.6	46.6	50.7	53.4	55.5	56.2	57.5	58.0	58.0	58.5	58.8	58.8	58.8	58.8	58.8	59.0		
>= 9000	5.6	46.8	50.9	53.7	55.8	56.4	57.7	58.2	58.2	58.8	59.1	59.1	59.2	59.2	59.2	59.4		
>= 8000	5.8	50.4	54.8	57.8	59.9	60.6	61.9	62.5	62.5	63.2	63.5	63.5	63.6	63.6	63.6	63.7		
>= 7000	5.8	51.5	56.0	59.0	61.1	61.8	63.1	63.7	63.7	64.4	64.7	64.7	64.8	64.8	64.8	64.9		
>= 6000	5.8	52.2	56.8	59.9	61.9	62.7	64.2	64.9	64.9	65.6	65.9	65.9	66.0	66.0	66.1	66.2		
>= 5000	5.8	54.6	59.3	62.5	64.6	65.4	67.0	67.8	67.9	68.6	68.9	68.9	69.0	69.0	69.1	69.2		
>= 4500	5.8	55.2	59.9	63.1	65.2	66.0	67.6	68.4	68.5	69.2	69.5	69.5	69.6	69.6	69.7	69.8		
>= 4000	5.8	56.4	61.3	64.7	66.9	67.8	69.7	70.5	70.6	71.4	71.6	71.6	71.7	71.7	71.8	72.0		
>= 3500	5.8	57.0	61.9	65.5	67.8	68.8	70.7	71.6	71.6	72.4	72.7	72.7	72.8	72.8	72.9	73.0		
>= 3000	6.0	59.3	64.3	68.1	70.6	71.7	73.8	74.7	74.7	75.5	75.8	75.8	75.9	75.9	76.0	76.2		
>= 2500	6.1	60.5	65.6	69.5	72.0	73.2	75.3	76.2	76.3	77.1	77.3	77.3	77.5	77.5	77.6	77.7		
>= 2000	6.4	62.0	67.3	71.3	74.0	75.2	77.5	78.4	78.4	79.3	79.6	79.6	79.7	79.7	79.8	80.0		
>= 1800	6.4	62.3	67.5	71.7	74.4	75.6	77.9	78.9	79.0	79.7	80.0	80.0	80.2	80.2	80.2	80.4		
>= 1500	6.4	63.1	68.4	72.8	75.4	76.7	79.1	80.2	80.2	81.0	81.4	81.4	81.5	81.5	81.6	81.8		
>= 1200	6.4	63.6	68.9	73.4	76.1	77.5	79.9	81.0	81.0	81.9	82.3	82.3	82.5	82.5	82.6	82.7		
>= 1000	6.4	64.5	70.1	75.1	77.9	79.4	81.8	82.9	83.0	83.8	84.3	84.3	84.5	84.5	84.5	84.7		
>= 900	6.4	64.9	70.5	75.7	78.8	80.2	82.6	83.8	83.8	84.7	85.1	85.1	85.3	85.3	85.5	85.7		
>= 800	6.4	65.0	70.9	76.4	79.6	81.0	83.6	84.8	84.9	85.8	86.3	86.3	86.4	86.4	86.6	86.8		
>= 700	6.4	65.1	71.1	76.9	80.3	81.9	84.7	86.1	86.2	87.1	87.6	87.6	87.8	87.8	88.0	88.1		
>= 600	6.4	65.3	71.4	77.1	81.0	82.8	85.9	87.3	87.4	88.3	88.8	88.8	89.1	89.1	89.3	89.4		
>= 500	6.4	65.5	71.6	77.7	81.8	83.8	87.3	88.7	88.8	89.9	90.5	90.5	90.7	90.7	90.9	91.1		
>= 400	6.4	65.5	71.6	77.9	82.2	84.3	88.2	89.9	89.9	91.2	91.8	91.8	92.0	92.0	92.2	92.4		
>= 300	6.4	65.6	71.7	78.0	82.6	84.8	89.2	91.2	91.4	93.0	93.7	93.9	94.2	94.2	94.4	94.8		
>= 200	6.4	65.6	71.7	78.0	82.6	84.8	89.4	91.8	92.0	93.9	94.8	95.0	95.5	95.7	96.0	96.6		
>= 100	6.4	65.6	71.7	78.0	82.6	84.8	89.4	91.8	92.1	94.0	95.2	95.4	96.0	96.3	96.7	98.0		
>= 0	6.4	65.6	71.7	78.0	82.6	84.8	89.4	91.8	92.1	94.0	95.2	95.4	96.0	96.5	97.1	100.0		

TOTAL NO. OF OBS : 1164



# 2 - CEILING VS VISIBILITY

013750 : NORFOLK, VA  
 PERIOD OF RECORD : 1945-1986  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
 MONTH : FEB  
 HOUR : 1000 LST

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)									
	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=1	1/2	>=1/4
UNLIMIT	6.1	40.3	43.9	45.6	47.2	47.4	47.9	48.2	48.2	48.2
>=20000	6.6	45.0	48.8	50.7	52.4	52.7	53.2	53.5	53.5	53.5
>=18000	6.6	45.1	48.9	50.9	52.6	52.9	53.4	53.6	53.6	53.6
>=16000	6.6	45.2	49.0	51.0	52.7	52.9	53.5	53.7	53.7	53.7
>=14000	6.7	45.8	49.7	51.6	53.4	53.6	54.2	54.4	54.4	54.4
>=12000	6.9	46.7	50.8	52.9	54.7	55.0	55.5	55.8	55.8	55.8
>=10000	7.4	50.8	55.3	57.5	59.3	59.8	60.5	60.7	60.7	60.7
>= 9000	7.5	51.3	55.9	58.2	60.0	60.5	61.2	61.4	61.4	61.4
>= 8000	7.9	55.7	60.8	63.4	65.4	65.8	66.5	66.8	66.8	66.8
>= 7000	8.0	56.8	61.9	64.7	66.9	67.3	68.1	68.3	68.3	68.3
>= 6000	8.1	57.4	62.8	65.8	68.3	68.8	69.6	70.0	70.0	70.0
>= 5000	8.1	58.7	64.4	67.5	69.9	70.4	71.4	71.7	71.7	71.7
>= 4500	8.1	59.3	65.1	68.3	70.7	71.2	72.1	72.5	72.5	72.5
>= 4000	8.2	60.1	66.3	69.6	72.3	72.8	73.8	74.1	74.1	74.1
>= 3500	8.2	60.6	67.0	70.5	73.3	73.8	74.7	75.1	75.1	75.1
>= 3000	8.2	61.6	68.3	72.1	75.0	75.6	76.6	77.1	77.1	77.1
>= 2500	8.3	62.7	69.6	73.4	76.3	76.9	77.9	78.4	78.4	78.4
>= 2000	8.3	63.8	71.0	74.9	77.9	78.6	79.7	80.3	80.3	80.3
>= 1800	8.3	63.8	71.1	75.2	78.2	78.9	79.9	80.5	80.5	80.5
>= 1500	8.3	64.9	72.4	76.5	79.7	80.7	81.8	82.5	82.6	82.6
>= 1200	8.4	65.3	73.1	77.4	81.0	82.0	83.2	83.9	84.0	84.0
>= 1000	8.4	66.1	74.0	78.5	82.0	83.1	84.3	85.2	85.4	85.4
>= 900	8.4	66.3	74.1	78.7	82.5	83.7	84.9	85.7	85.9	85.9
>= 800	8.4	66.5	74.6	79.2	83.5	84.8	86.2	87.4	87.6	87.6
>= 700	8.5	66.8	75.2	79.9	84.3	85.7	87.3	88.4	88.8	89.1
>= 600	8.5	67.0	75.3	80.3	84.9	86.5	88.5	89.7	90.1	90.4
>= 500	8.5	67.0	75.6	80.5	85.4	87.5	89.9	91.3	91.9	92.1
>= 400	8.5	67.0	75.6	80.7	86.0	88.1	91.2	93.1	94.1	94.6
>= 300	8.5	67.0	75.6	80.7	86.1	88.3	91.4	93.8	95.2	95.7
>= 200	8.5	67.0	75.6	80.7	86.1	88.3	91.4	93.9	96.2	97.2
>= 100	8.5	67.0	75.6	80.7	86.1	88.3	91.4	93.9	95.2	97.4
>= 0	8.5	67.0	75.6	80.7	86.1	88.3	91.4	93.9	96.2	98.1
										98.6
										100.0

TOTAL NO. OF OBS : 1156



## 2 - CEILING VS VISIBILITY

013750 : NORFOLK, VA  
PERIOD OF RECORD : 1945-1986  
CLASS : ALL WEATHER  
CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : FEB  
HOUR : 1300 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)									
	>=10	>=6	>=5	>=4	>=3	>=2 1/2	>=2	>=1 1/2	>=1 1/4	>=1
UNLIMIT	9.3	44.4	46.2	47.5	47.9	48.0	48.0	48.0	48.0	48.0
>=20000	10.7	49.5	51.6	53.1	53.7	53.8	53.9	53.9	53.9	53.9
>=18000	10.8	49.7	51.9	53.4	54.0	54.1	54.1	54.1	54.1	54.1
>=16000	11.0	49.9	52.1	53.5	54.1	54.2	54.3	54.3	54.3	54.3
>=14000	11.3	50.9	53.2	54.7	55.4	55.5	55.6	55.6	55.6	55.6
>=12000	11.6	53.0	55.4	57.0	57.7	57.8	57.9	57.9	57.9	57.9
>=10000	11.8	56.0	58.7	60.5	61.2	61.3	61.4	61.4	61.4	61.4
>= 9000	11.9	56.7	59.5	61.3	62.2	62.3	62.3	62.3	62.3	62.3
>= 8000	12.2	60.4	63.7	65.8	66.9	67.1	67.3	67.3	67.3	67.3
>= 7000	12.2	61.4	65.1	67.3	68.4	68.6	68.7	68.7	68.7	68.7
>= 6000	12.3	62.3	66.0	68.2	69.4	69.6	69.9	69.9	69.9	69.9
>= 5000	12.5	63.8	68.0	70.2	71.5	71.7	71.9	71.9	71.9	71.9
>= 4500	12.6	64.2	68.4	70.7	72.0	72.2	72.5	72.5	72.5	72.5
>= 4000	13.0	66.2	70.5	72.9	74.4	74.5	74.8	74.8	74.8	74.8
>= 3500	13.1	67.0	71.3	73.8	75.3	75.5	75.8	75.8	75.8	75.8
>= 3000	13.1	68.0	72.5	75.5	76.9	77.2	77.8	77.8	77.8	77.8
>= 2500	13.3	69.1	73.7	76.7	78.2	78.4	79.1	79.1	79.1	79.1
>= 2000	13.8	71.4	76.3	79.5	81.1	81.4	82.0	82.2	82.2	82.2
>= 1800	13.8	71.7	76.5	79.9	81.4	81.8	82.5	82.6	82.6	82.6
>= 1500	13.8	72.5	77.6	81.1	82.9	83.3	84.0	84.3	84.4	84.4
>= 1200	13.9	73.4	79.1	82.8	84.9	85.4	86.1	86.4	86.4	86.4
>= 1000	14.0	73.7	79.5	83.6	85.8	86.4	87.2	87.6	87.7	87.7
>= 900	14.1	74.0	80.1	84.1	86.5	87.3	88.2	88.5	88.7	88.7
>= 800	14.1	74.0	80.2	84.4	87.0	87.9	89.0	89.6	89.7	89.8
>= 700	14.1	74.2	80.6	84.9	87.7	88.7	90.1	90.8	91.0	91.2
>= 600	14.1	74.4	80.7	85.3	88.4	89.5	90.8	91.7	92.2	92.4
>= 500	14.1	74.5	81.2	85.8	89.2	90.2	92.0	93.1	93.3	93.9
>= 400	14.1	74.5	81.2	85.9	89.6	90.8	92.7	94.3	94.5	95.4
>= 300	14.1	74.5	81.2	85.9	89.6	90.8	93.4	95.2	95.3	96.5
>= 200	14.1	74.5	81.2	85.9	89.6	90.8	93.4	95.3	95.6	97.0
>= 100	14.1	74.5	81.2	85.9	89.6	90.8	93.4	95.3	95.6	97.0
>= 0	14.1	74.5	81.2	85.9	89.6	90.8	93.4	95.3	95.6	97.0

TOTAL NO. OF OBS : 1158



## 2 - CEILING VS VISIBILITY

013750 : NORFOLK, VA  
PERIOD OF RECORD : 1945-1986  
CLASS : ALL WEATHER  
CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : FEB  
HOUR : 1600 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)										PERCENTAGE FREQUENCY OF OCCURRENCE									
	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=1	1/4	>=1	>=3/4	>=5/8	>=1/2	>=5/16	>=1/4	>=1/8	>=1/16	>=1/32	>=1/64	>=1/128
UNLIMIT	10.7	45.9	47.2	47.6	48.0	48.2	48.2	48.2	48.2	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4
>=20000	12.2	51.3	52.8	53.5	53.9	54.1	54.1	54.1	54.1	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2	54.2
>=18000	12.2	51.4	52.9	53.5	54.0	54.1	54.1	54.1	54.1	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3
>=16000	12.3	51.7	53.3	53.9	54.3	54.5	54.5	54.5	54.5	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7
>=14000	12.6	52.3	54.0	54.7	55.2	55.4	55.4	55.4	55.4	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5
>=12000	13.2	53.9	55.6	56.4	57.0	57.2	57.2	57.2	57.2	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3
>=10000	13.5	57.4	59.6	60.5	61.1	61.3	61.3	61.3	61.3	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5
>=9000	13.5	57.8	60.0	61.0	61.7	61.8	61.8	61.8	61.8	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0	62.0
>=8000	13.9	61.6	64.1	65.2	66.1	66.4	66.4	66.4	66.4	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6
>=7000	14.0	62.4	65.1	66.2	67.2	67.4	67.4	67.4	67.4	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5
>=6000	14.1	63.4	66.2	67.5	68.5	68.7	68.7	68.7	68.7	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
>=5000	14.1	64.2	67.4	69.0	70.1	70.2	70.5	70.6	70.6	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7
>=4500	14.1	64.8	68.1	69.7	70.9	71.0	71.2	71.3	71.3	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5
>=4000	14.4	66.7	70.4	72.1	73.5	73.8	74.0	74.0	74.0	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2
>=3500	14.7	67.8	71.7	73.5	75.0	75.4	75.6	75.6	75.6	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7
>=3000	14.9	69.9	74.1	76.1	77.5	77.9	78.3	78.6	78.6	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8	78.8
>=2500	15.0	71.2	75.6	77.5	79.0	79.4	79.8	80.1	80.1	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2
>=2000	15.1	72.8	77.6	79.9	81.4	81.8	82.3	82.6	82.7	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9
>=1800	15.1	72.9	77.7	80.0	81.5	81.9	82.4	82.6	82.8	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0
>=1500	15.1	73.9	79.5	81.8	83.3	83.8	84.4	84.7	84.9	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1
>=1200	15.1	74.0	79.8	82.2	83.8	84.3	85.0	85.4	85.6	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8
>=1000	15.2	74.4	80.4	83.2	84.8	85.3	86.2	86.6	86.8	87.0	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2
>=900	15.2	74.4	80.5	83.4	85.2	85.8	86.7	87.1	87.3	87.6	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7
>=800	15.2	74.5	80.7	84.0	86.3	86.9	88.1	88.5	88.7	89.0	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2
>=700	15.2	74.6	80.9	84.2	86.9	87.6	88.9	89.4	89.6	90.2	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5
>=600	15.2	74.7	81.0	84.4	87.5	88.4	90.0	90.7	90.8	91.5	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9
>=500	15.2	75.0	81.3	84.9	88.2	89.4	91.3	92.4	92.6	93.5	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0	94.0
>=400	15.2	75.0	81.3	84.9	88.4	89.7	92.0	93.3	93.4	94.7	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6
>=300	15.2	75.0	81.3	85.0	88.7	90.1	92.6	94.0	94.1	95.8	97.1	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
>=200	15.2	75.0	81.3	85.0	88.7	90.1	92.7	94.2	94.4	96.3	97.8	98.0	98.5	98.7	99.1	99.1	99.1	99.1	99.1	99.1
>=100	15.2	75.0	81.3	85.0	88.7	90.1	92.7	94.2	94.4	96.3	97.8	98.0	98.5	98.8	99.3	99.3	99.3	99.3	99.3	99.3
>=0	15.2	75.0	81.3	85.0	88.7	90.1	92.7	94.2	94.4	96.3	97.8	98.0	98.5	98.8	99.4	99.4	99.4	99.4	99.4	99.4

TOTAL NO. OF OBS : 1158



# 2 - CEILING VS VISIBILITY

013750 : NORFOLK, VA  
 PERIOD OF RECORD : 1945-1986  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
 MONTH : FEB  
 HOUR : 1900 LST

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)															
	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=1	1/2	>=1	1/4	>=1	>=3/4	>=5/8	>=1/2	>=5/16
	>=1/4	>=1/8	>=1/16	>=1/32	>=1/64	>=1/128	>=1/256	>=1/512	>=1/1024	>=1/2048	>=1/4096	>=1/8192	>=1/16384	>=1/32768	>=1/65536	>=1/131072
UNLIMIT	8.4	48.8	50.8	51.9	52.4	52.4	52.7	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8
>=20000	8.7	52.4	54.5	55.9	56.3	56.4	56.6	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7
>=18000	8.7	52.4	54.6	56.0	56.4	56.5	56.7	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8
>=16000	8.7	52.6	54.8	56.1	56.6	56.6	56.9	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0
>=14000	8.7	53.1	55.4	56.7	57.2	57.3	57.6	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7
>=12000	9.2	55.3	57.5	59.0	59.5	59.6	59.9	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
>=10000	9.4	58.4	60.8	62.5	63.0	63.4	63.8	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9
>= 9000	9.4	58.5	61.1	62.7	63.4	63.6	63.8	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9
>= 8000	9.7	62.6	65.6	67.4	68.1	68.3	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6
>= 7000	9.8	63.7	66.7	68.4	69.2	69.3	69.7	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8
>= 6000	9.9	64.8	67.9	69.6	70.4	70.5	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
>= 5000	10.0	66.2	69.8	71.6	72.4	72.6	73.0	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1
>= 4500	10.0	66.7	70.5	72.2	73.1	73.3	73.7	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8
>= 4000	10.2	68.2	72.3	74.3	75.1	75.4	75.8	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9
>= 3500	10.5	69.5	73.6	75.8	76.7	76.9	77.4	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5
>= 3000	10.5	70.8	75.0	77.3	78.2	78.6	79.1	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2
>= 2500	10.5	72.2	76.6	79.1	80.1	80.5	81.0	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1
>= 2000	10.5	73.1	77.8	80.4	81.5	81.8	82.3	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4	82.4
>= 1800	10.5	73.4	78.5	81.1	82.2	82.5	83.0	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1
>= 1500	10.5	74.2	79.6	82.3	83.5	83.8	84.3	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4
>= 1200	10.5	74.8	80.5	83.6	84.9	85.3	86.2	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3
>= 1000	10.5	75.3	81.2	84.5	85.9	86.3	87.1	87.2	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3
>= 900	10.5	75.5	81.5	84.7	86.3	86.7	87.6	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7
>= 800	10.5	76.0	82.0	85.3	87.1	87.7	88.7	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9
>= 700	10.5	76.4	82.5	86.2	88.1	88.9	90.1	90.2	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3
>= 600	10.5	76.4	82.7	86.5	88.5	89.4	90.8	91.1	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2
>= 500	10.5	76.7	83.1	87.1	89.6	90.7	92.6	93.0	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.1
>= 400	10.5	76.7	83.2	87.2	90.1	91.3	93.7	94.1	94.2	94.3	94.3	94.3	94.3	94.3	94.3	94.3
>= 300	10.5	76.8	83.3	87.4	90.2	91.4	94.0	94.8	94.9	95.3	95.3	95.3	95.3	95.3	95.3	95.3
>= 200	10.5	76.8	83.3	87.4	90.3	91.8	94.5	95.8	96.0	96.9	96.9	96.9	96.9	96.9	96.9	96.9
>= 100	10.5	76.8	83.3	87.4	90.3	91.9	94.6	95.9	96.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1
>= 0	10.5	76.8	83.3	87.4	90.3	91.9	94.6	95.9	96.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1

TOTAL NO. OF OBS : 1167



## 2 - CEILING VS VISIBILITY

013750 : NORFOLK, VA  
 PERIOD OF RECORD : 1945-1986  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
 MONTH : FEB  
 HOUR : 2200 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)									
	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=1	1/2	>=1/4
UNLIMIT	7.9	50.6	53.3	54.3	54.9	54.9	55.1	55.1	55.1	55.3
>=20000	8.1	53.3	56.2	57.4	58.1	58.3	58.3	58.3	58.3	55.3
>=18000	8.1	53.3	56.2	57.4	58.1	58.3	58.3	58.3	58.3	55.3
>=16000	8.1	53.4	56.3	57.5	58.2	58.4	58.4	58.4	58.6	58.6
>=14000	8.4	53.9	56.8	58.0	58.7	58.9	58.9	58.9	58.6	58.6
>=12000	8.6	55.7	58.6	60.1	60.9	61.0	61.0	61.0	61.3	61.3
>=10000	8.8	58.9	62.0	63.4	64.2	64.5	64.5	64.5	64.7	64.7
>=9000	8.8	59.2	62.4	63.9	64.7	65.0	65.0	65.0	65.2	65.2
>=8000	9.1	62.2	65.7	67.1	68.0	68.3	68.3	68.3	68.6	68.6
>=7000	9.1	63.4	66.9	68.3	69.2	69.5	69.5	69.5	69.8	69.8
>=6000	9.2	64.2	68.0	69.4	70.3	70.6	70.6	70.6	70.9	70.9
>=5000	9.4	66.4	70.3	71.7	72.7	73.2	73.2	73.2	73.5	73.5
>=4500	9.4	67.0	71.1	72.6	73.5	74.1	74.1	74.1	74.3	74.4
>=4000	9.5	68.4	72.7	74.1	75.3	75.8	75.8	75.8	76.0	76.1
>=3500	9.5	69.3	73.9	75.3	76.5	77.0	77.0	77.0	77.2	77.3
>=3000	9.7	70.6	75.3	76.9	78.0	78.5	78.5	78.5	78.8	78.9
>=2500	9.7	71.2	75.9	77.7	78.8	79.3	79.3	79.3	79.5	79.6
>=2000	9.9	72.4	77.4	79.3	80.5	81.1	81.1	81.1	81.4	81.5
>=1800	9.9	72.7	77.7	79.6	80.9	81.0	81.5	81.5	81.8	81.9
>=1500	10.0	74.1	79.5	81.4	82.8	83.4	83.4	83.4	83.7	83.8
>=1200	10.2	74.8	80.6	82.7	84.1	84.7	84.7	84.7	85.0	85.1
>=1000	10.2	75.5	81.7	84.1	85.5	86.2	86.2	86.2	86.7	86.8
>=900	10.2	75.7	81.9	84.5	86.0	86.2	87.0	87.0	87.5	87.6
>=800	10.2	76.2	82.5	85.3	87.2	88.2	88.2	88.2	88.8	88.9
>=700	10.2	76.8	83.6	86.5	88.5	89.6	89.6	89.6	90.2	90.3
>=600	10.2	76.9	83.8	86.9	89.1	89.3	90.2	90.2	91.0	91.1
>=500	10.2	77.2	84.3	87.8	90.4	90.7	91.7	92.1	92.9	93.0
>=400	10.2	77.5	84.8	88.4	91.1	91.4	92.6	93.1	94.0	94.2
>=300	10.2	77.5	84.9	88.4	91.4	92.1	93.8	94.2	96.1	96.5
>=200	10.2	77.5	84.9	88.4	91.4	92.2	94.2	94.9	97.3	97.8
>=100	10.2	77.5	84.9	88.4	91.4	92.2	94.3	94.9	97.5	98.7
>=0	10.2	77.5	84.9	88.4	91.4	92.2	94.3	94.9	97.5	100.0

TOTAL NO. OF OBS : 1168



## 2 - CEILING VS VISIBILITY

013750 : NORFOLK, VA  
PERIOD OF RECORD : 1945-1986  
CLASS : ALL WEATHER  
CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : FEB  
HOUR : ALL

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)									
	>=10	>=6	>=5	>=4	>=3	>=2 1/2	>=2	>=1 1/2	>=1 1/4	>=1
UNLIMIT	8.0	46.0	48.4	49.6	50.4	50.5	50.9	51.0	51.0	51.2
>=20000	8.6	49.7	52.2	53.6	54.5	54.6	55.0	55.2	55.3	55.4
>=18000	8.6	49.7	52.3	53.7	54.6	54.8	55.1	55.3	55.5	55.5
>=16000	8.6	49.9	52.5	53.9	54.7	54.9	55.3	55.5	55.7	55.7
>=14000	8.8	50.4	53.0	54.5	55.4	55.6	56.0	56.1	56.3	56.4
>=12000	9.1	51.9	54.6	56.2	57.2	57.4	57.8	57.9	58.1	58.2
>=10000	9.3	55.1	58.1	59.7	60.8	61.0	61.4	61.6	61.8	61.9
>= 9000	9.3	55.5	58.6	60.3	61.3	61.6	62.0	62.2	62.4	62.5
>= 8000	9.6	59.2	62.6	64.5	65.7	65.9	66.4	66.6	66.8	66.9
>= 7000	9.7	60.3	63.7	65.7	66.9	67.2	67.6	67.9	68.1	68.2
>= 6000	9.7	61.1	64.8	66.8	68.1	68.4	68.9	69.1	69.4	69.5
>= 5000	9.9	62.9	66.8	68.9	70.3	70.6	71.1	71.4	71.6	71.7
>= 4500	9.9	63.5	67.5	69.6	71.0	71.3	71.9	72.1	72.3	72.4
>= 4000	10.0	65.0	69.2	71.5	72.9	73.2	73.9	74.1	74.3	74.4
>= 3500	10.1	65.9	70.3	72.6	74.2	74.5	75.1	75.4	75.6	75.7
>= 3000	10.2	67.4	72.0	74.6	76.2	76.6	77.3	77.6	77.8	77.9
>= 2500	10.3	68.5	73.3	75.8	77.5	77.9	78.6	78.9	79.2	79.3
>= 2000	10.5	70.1	75.1	77.9	79.6	80.0	80.8	81.2	81.5	81.5
>= 1800	10.5	70.4	75.4	78.3	80.0	80.4	81.3	81.6	81.9	81.9
>= 1500	10.5	71.3	76.6	79.6	81.4	82.0	82.8	83.2	83.5	83.6
>= 1200	10.6	72.0	77.6	80.7	82.7	83.3	84.2	84.6	84.9	85.0
>= 1000	10.6	72.5	78.3	81.8	83.8	84.5	85.5	85.9	86.3	86.4
>= 900	10.6	72.7	78.6	82.2	84.3	85.0	86.1	86.5	86.9	87.0
>= 800	10.6	73.0	79.0	82.8	85.2	85.9	87.2	87.7	88.1	88.2
>= 700	10.6	73.3	79.5	83.5	86.1	86.9	88.3	88.9	89.0	89.6
>= 600	10.6	73.5	79.7	83.9	86.7	87.8	89.3	90.0	90.4	90.7
>= 500	10.6	73.7	80.1	84.4	87.6	88.8	90.6	91.4	91.5	92.3
>= 400	10.6	73.7	80.3	84.7	88.2	89.5	91.7	92.7	92.8	93.5
>= 300	10.6	73.8	80.4	84.9	88.6	90.0	92.6	93.9	94.0	95.0
>= 200	10.6	73.8	80.5	85.0	88.6	90.1	92.8	94.3	94.5	95.8
>= 100	10.6	73.8	80.5	85.0	88.6	90.1	92.9	94.4	94.5	95.9
>= 0	10.6	73.8	80.5	85.0	88.6	90.1	92.9	94.4	94.5	95.9

TOTAL NO. OF OPS : 9301



# 1 - SURFACE WINDS

013750 : NORFOLK, VA  
 PERIOD OF RECORD : 1945-1986  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
 MONTH : MAR  
 HOUR : 0100 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

16 PT.		1	-	3	4	-	6	7-10	11-16	17-21	SPEED (KNOTS)					28-33	34-40	41-47	48-55	>=56	TOTAL	%	MEAN	
DIR.		1		1		1		1		1		1		1		1		1		1		1		
N		.5		1.1		2.5		2.9		1.1		.2		.2		.0		.0		.0		8.6		11.8
NNE		.4		.5		1.1		2.2		.7		.3		.0		.0		.0		.0		5.1		11.9
NE		.3		1.0		1.3		.8		.2		.0		.0		.0		.0		.0		3.5		8.7
ENE		.5		1.5		1.7		.8		.2		.0		.0		.0		.0		.0		4.7		7.7
E		.9		1.4		.8		.8		.0		.1		.0		.0		.0		.0		4.0		6.9
ESE		.5		.5		.7		.4		.0		.0		.0		.0		.0		.0		2.1		6.7
SE		1.0		1.4		.8		.3		.1		.0		.0		.0		.0		.0		3.5		5.7
SSE		.8		2.2		1.4		.4		.0		.1		.0		.0		.0		.0		4.9		6.3
S		.8		2.5		3.8		2.8		.6		.1		.0		.0		.0		.0		10.7		9.3
SSW		.6		1.8		5.5		3.8		.5		.2		.0		.0		.0		.0		12.5		9.9
SW		.2		1.7		1.2		1.2		.3		.0		.0		.0		.0		.0		4.7		8.9
WSW		.5		.5		1.3		.9		.2		.1		.1		.0		.0		.0		3.6		9.4
W		.5		1.3		2.5		2.1		.3		.4		.0		.0		.0		.0		7.1		10.3
WNW		.3		.8		1.2		1.8		.5		.1		.2		.0		.0		.0		4.8		11.4
NW		.3		1.0		1.7		2.2		.8		.1		.0		.0		.0		.0		6.0		10.9
NNW		.3		.9		3.1		1.8		.5		.2		.0		.0		.0		.0		6.8		10.5
VAR		.0		.0		.0		.0		.0		.0		.0		.0		.0		.0		.0		.0
CLM		.0		.0		.0		.0		.0		.0		.0		.0		.0		.0		7.3		.0
ALL		8.6		20.1		30.7		25.1		5.9		1.8		.5		.0		.0		.0		100.0		8.8

TOTAL NO. OF OBS : 1301

NOTES : PERCENT < .05



# 1 - SURFACE WINDS

013750 : MORFOLK, VA  
 PERIOD OF RECORD : 1945-1986  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
 MONTH : MAR  
 HOUR : 0400 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

DIR.	SPEED (KNOTS)																TOTAL %	MEAN WIND SPEED
	16-20	21-25	26-30	31-35	36-40	41-45	46-50	51-55	56-60	61-65	66-70	71-75	76-80	81-85	86-90	91-95		
N	.2	1.2	2.3	2.8	1.8	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.6	11.9
NNE	.2	.8	1.8	2.8	.8	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.8	12.5
NE	.5	1.4	2.0	2.3	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.7	9.8
ENE	.8	1.6	.9	.6	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.0	7.0
E	.9	1.4	1.1	.6	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.2	7.0
ESE	.3	.8	.6	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.8	6.3
SE	.5	.9	.7	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.5	6.8
SSE	.5	1.2	.7	1.0	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.6	8.6
S	.8	1.8	2.2	1.8	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.1	9.0
SSW	.5	2.2	4.5	3.7	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11.6	9.8
SW	.8	1.6	2.5	1.7	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.8	8.4
WSW	.5	.9	1.6	.8	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.1	8.5
W	.7	1.2	1.9	1.9	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.5	10.0
WNW	.2	1.4	1.5	1.5	.5	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.4	10.4
NW	.5	.8	1.8	2.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.3	10.0
NNW	.2	1.3	2.3	3.2	.6	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.8	10.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.3	.0
CLM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.3	.0
ALL	8.1	20.3	28.5	27.0	6.5	1.8	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	100.0	9.0

TOTAL NO. OF OBS : 1301

NOTES :  
 \* = PERCENT < .05



# 1 - SURFACE WINDS

013750 : NORFOLK, VA  
 PERIOD OF RECORD : 1945-1986  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
 MONTH : MAR  
 HOUR : 0700 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

DIR.	16 PT.	1	2	3	4	5	6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>=56	TOTAL	MEAN
																	%	WIND SPEED
N	.5	1.0	2.9	4.0	.5	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.3	11.2
NNE	.2	1.1	1.5	2.6	.7	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.7	12.4
NE	.8	.8	1.5	1.8	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.2	9.4
ENE	.2	1.6	2.3	1.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.5	8.6
E	.9	1.1	1.1	1.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.2	7.6
ESE	.4	.7	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6	5.4
SE	.7	.9	1.2	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.2	6.9
SSE	.8	.5	.8	.8	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.1	8.2
S	.8	1.5	1.9	1.8	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.5	9.2
SSW	.4	1.8	3.3	3.8	.7	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10.2	10.1
SW	.5	2.2	3.0	1.9	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.7	8.6
WSW	.3	1.2	1.6	1.3	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.8	9.5
W	.3	1.3	2.2	2.3	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.3	9.8
WNW	.4	1.5	1.6	1.2	.7	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.7	10.4
NW	.0	1.1	1.9	1.6	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.0	10.0
NNW	.1	1.4	2.3	3.4	1.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.4	11.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.5	.0
ALL	7.1	19.8	29.6	29.1	5.7	1.8	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	9.1

TOTAL NO. OF OBS : 1301

NOTES :  
 \* = PERCENT < .05



# 1 - SURFACE WINDS

013750 : NORFOLK, VA  
 PERIOD OF RECORD : 1945-1986  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
 MONTH : MAR  
 HOUR : 1000 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

16 PT. DIR.	1 - 3	4 - 6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>=56	TOTAL	MEAN WIND SPEED
N	.8	2.0	3.3	3.8	.9	.2	.0	.0	.0	.0	.0	10.9	10.3
NNE	.8	1.5	3.6	4.1	.8	.2	.0	.0	.0	.0	.0	11.2	10.8
NE	.4	1.9	2.2	2.1	.1	.2	.0	.0	.0	.0	.0	6.8	9.2
ENE	.2	1.0	2.2	1.4	.1	.0	.0	.0	.0	.0	.0	4.8	9.2
E	.4	1.1	2.4	.6	.2	.0	.0	.0	.0	.0	.0	4.6	8.2
ESE	.3	.5	.7	.5	.1	.0	.0	.0	.0	.0	.0	2.2	7.8
SE	.0	.5	1.7	.2	.0	.0	.0	.0	.0	.0	.0	2.4	8.5
SSE	.4	.6	.6	.8	.2	.0	.0	.0	.0	.0	.0	2.7	9.4
S	.2	.7	1.6	1.8	.5	.2	.0	.0	.0	.0	.0	5.1	11.3
SSW	.0	1.0	3.4	3.3	1.0	.0	.2	.0	.0	.0	.0	8.8	11.7
SW	.2	1.2	1.9	3.2	.6	.2	.1	.0	.0	.0	.0	7.3	11.3
WSW	.2	.9	2.5	2.8	.6	.1	.0	.0	.0	.0	.0	7.2	11.1
W	.2	1.5	2.9	2.9	.5	.4	.1	.0	.0	.0	.0	8.6	10.9
WNW	.1	.7	1.6	2.5	1.0	.2	.1	.0	.0	.0	.0	6.2	12.6
NW	.2	.2	.5	1.3	.6	.2	.0	.0	.0	.0	.0	2.9	13.3
MNW	.2	1.0	2.2	2.8	.4	.2	.0	.0	.0	.0	.0	6.8	11.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	.0
ALL	4.3	16.4	33.2	34.2	7.6	2.2	.6	.0	.0	.0	.0	103.0	10.5

TOTAL NO. OF OBS : 1300

NOTES :  
 \* = PERCENT < .05



# 1 - SURFACE WINDS

013750 : NORFOLK, VA  
 PERIOD OF RECORD : 1945-1986  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
 MONTH : MAR  
 HOUR : 1300 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

DIR.	SPEED (KNOTS)																TOTAL %	MEAN WIND SPEED
	16 PT.	1	2	3	4	5	6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>56		
N	1.0	2.2	1.8	1.9	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.7	9.0
NNE	.4	3.3	4.5	4.1	.9	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	13.5	10.2
NE	.2	2.4	3.2	2.5	.4	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.8	9.6
ENE	.5	2.0	3.2	2.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.1	8.9
E	.2	1.3	2.2	.8	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.6	8.1
ESE	.2	.5	.4	.4	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	9.7
SE	.1	.4	.4	.7	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	9.9
SSE	.1	.5	.7	1.1	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.6	11.4
S	.1	.6	.5	1.4	.6	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.4	12.3
SSW	.2	.5	2.0	2.7	1.2	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.1	13.2
SW	.2	.3	1.7	2.7	1.4	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.7	13.6
WSW	.2	.8	2.2	3.8	1.2	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.6	12.6
W	.3	1.1	3.5	2.7	.8	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.7	11.1
WNW	.3	.7	1.8	3.7	1.5	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.5	12.7
NW	.1	.3	1.2	2.0	.7	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.3	12.1
NNW	.1	.5	.8	1.2	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.0	11.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	.0
ALL	4.0	17.2	30.0	33.7	10.3	3.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	103.0	10.9

TOTAL NO. OF OBS : 1301

NOTES :  
 \* = PERCENT < .05



# 1 - SURFACE WINDS

013750 : NORFOLK, VA  
 PERIOD OF RECORD : 1945-1986  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
 MONTH : MAR  
 HOUR : 1600 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>=56	TOTAL %	MEAN WIND SPEED
N	.5	.6	1.1	1.6	.5	.5	.0	.0	.0	.0	.0	4.7	11.4
NNE	.7	1.6	2.5	2.5	1.1	.3	.2	.0	.0	.0	.0	8.8	10.9
NE	.5	1.9	2.9	2.3	.2	.1	.1	.0	.0	.0	.0	8.0	9.3
ENE	.8	3.5	4.2	2.9	.1	.0	.0	.0	.0	.0	.0	11.5	8.0
E	.6	3.5	3.7	.8	.0	.1	.0	.0	.0	.0	.0	8.7	7.2
ESE	.1	.6	1.8	.6	.1	.0	.0	.0	.0	.0	.0	3.2	9.2
SE	.1	.2	1.5	1.1	.3	.1	.0	.0	.0	.0	.0	3.2	11.0
SSE	.0	.4	1.2	.5	.3	.1	.0	.0	.0	.0	.0	2.5	10.8
S	.2	.2	.8	1.6	.9	.2	.1	.1	.0	.0	.0	4.0	14.0
SSW	.1	.5	1.8	2.5	.7	.2	.0	.0	.0	.0	.0	5.8	12.0
SW	.1	.3	1.6	3.4	1.2	.4	.0	.0	.0	.0	.0	6.9	13.2
WSW	.2	.7	2.4	3.9	.6	.3	.1	.0	.0	.0	.0	8.2	11.9
W	.4	1.4	2.3	2.0	1.0	.4	.1	.0	.0	.0	.0	7.5	11.3
WNW	.0	.5	2.9	3.2	1.3	.1	.0	.0	.0	.0	.0	7.9	12.2
NW	.1	.7	1.6	1.9	.5	.0	.0	.0	.0	.0	.0	4.8	11.3
NNW	.1	.8	.6	1.4	.4	.0	.0	.0	.0	.0	.0	3.2	10.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	.0
ALL	4.4	17.5	32.8	32.1	9.0	2.5	.5	.1	.0	.0	.0	100.0	10.5

TOTAL NO. OF OBS : 1301

NOTES :  
 \* = PERCENT < .05



# 1 - SURFACE WINDS

013750 : NORFOLK, VA  
 PERIOD OF RECORD : 1945-1986  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
 MONTH : MAR  
 HOUR : 1900 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

16 PT. DIR.	1	2	3	4	5	6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>56	TOTAL	MEAN WIND SPEED
N	.4	.6	1.4	1.7	1.6	1.6	.6	.7	.3	.2	.0	.0	.0	.0	.0	4.8	11.2
NNE	.1	1.1	1.7	1.8	1.8	1.8	.7	.7	.3	.2	.0	.0	.0	.0	.0	5.8	11.9
NE	1.4	1.5	1.6	1.6	1.2	1.2	.2	.1	.1	.0	.0	.0	.0	.0	.0	5.8	7.6
ENE	1.5	2.5	1.6	1.6	1.2	1.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	6.9	6.7
E	2.0	2.8	2.0	2.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.1	5.4
ESE	1.2	2.4	1.6	1.6	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.5	5.8
SE	1.2	3.7	3.9	3.9	.6	.6	.2	.2	.0	.0	.0	.0	.0	.0	.0	9.6	6.7
SSE	.6	1.9	3.2	3.2	1.7	1.7	.2	.2	.0	.0	.0	.0	.0	.0	.0	7.5	8.4
S	.5	.9	2.2	2.2	2.1	2.1	.8	.2	.2	.2	.0	.0	.0	.0	.0	6.5	10.8
SSW	.2	1.8	3.3	3.3	1.9	1.9	.2	.2	.2	.2	.0	.0	.0	.0	.0	7.6	9.3
SW	.8	1.9	1.6	1.6	1.5	1.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	5.9	8.1
WSW	.1	1.1	1.2	1.2	.8	.8	.2	.1	.1	.1	.0	.0	.0	.0	.0	3.4	9.2
W	.4	.8	1.7	1.7	2.2	2.2	.6	.3	.3	.3	.0	.0	.0	.0	.0	6.0	10.9
WNW	.2	.9	1.5	1.5	1.7	1.7	.4	.3	.3	.3	.0	.0	.0	.0	.0	5.0	11.0
NW	.2	.8	1.5	1.5	1.5	1.5	.4	.0	.0	.0	.0	.0	.0	.0	.0	4.3	10.5
NNW	.2	.5	1.0	1.0	1.5	1.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	3.6	11.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.5	.0
ALL	10.7	25.3	30.8	30.8	21.7	21.7	5.2	1.6	.2	.0	.0	.0	.0	.0	.0	100.0	8.4

TOTAL NO. OF OBS : 1301

NOTES : \* = PERCENT < .05



# 1 - SURFACE WINDS

013750 : NORFOLK, VA  
 PERIOD OF RECORD : 1945-1986  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT

MONTH : MAR  
 HOUR : 2200 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

DIR.	SPEED (KNOTS)																TOTAL	MEAN WIND SPEED
	16 PT.	1	2	3	4	5	6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>56		
N	.2	.7	1.8	2.3	.5	.3	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	6.2	12.4
NNE	.2	.5	1.5	2.2	.3	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.9	12.1
NE	.5	1.3	1.2	.5	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.7	7.7
ENE	.7	.8	1.7	.6	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.9	7.6
E	1.5	1.9	1.4	.9	.3	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.0	7.2
ESE	.8	1.2	.8	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.1	5.7
SE	1.1	1.8	1.5	.2	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.6	5.8
SSE	2.0	4.0	2.9	1.3	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	10.3	6.5
S	1.1	3.5	4.2	3.1	.7	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	12.8	9.3
SSW	.3	1.5	3.8	3.9	.2	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.8	10.3
SW	.3	1.2	1.4	1.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.0	8.6
WSW	.5	.7	.9	1.1	.2	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.5	9.5
W	.5	1.2	1.5	1.5	.7	.7	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.6	10.4
WNW	.0	.6	.8	1.9	.4	.4	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.0	12.6
NW	.2	.5	1.4	2.2	.7	.7	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.0	11.9
NNW	.3	.8	1.8	1.7	.5	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.1	10.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.4	.0
ALL	10.1	22.1	28.5	24.6	4.9	2.2	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	100.0	8.6

TOTAL NO. OF OBS : 1301

NOTES :  
 \* = PERCENT < .05



# 1 - SURFACE WINDS

013750 : NORFOLK, VA  
 PERIOD OF RECORD : 1945-1986  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
 MONTH : MAR  
 HOUR : ALL

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

DIR.	SPEED (KNOTS)															TOTAL	MEAN WIND SPEED
	16-20	21-25	26-30	31-35	36-40	41-45	46-50	51-55	56-60	61-65	66-70	71-75	76-80	81-85	86-90		
N	.5	1.2	2.2	2.6	.8	.3	.1	.0*	.0	.0	.0	.0	.0	.0	.0	7.6	11.1
NNE	.4	1.3	2.3	2.8	.7	.3	.1	.0*	.0	.0	.0	.0	.0	.0	.0	7.9	11.3
NE	.6	1.5	2.0	1.7	.2	.1	.0*	.0	.0	.0	.0	.0	.0	.0	.0	6.1	9.1
ENE	.6	1.8	2.2	1.4	.1	.0*	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.2	8.0
E	.9	1.8	1.8	.7	.1	.0*	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.4	7.1
ESE	.5	.9	.9	.3	.0*	.0*	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.6	6.9
SE	.6	1.2	1.4	.5	.1	.0*	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.8	7.2
SSE	.7	1.4	1.4	.9	.1	.0*	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.7	8.0
S	.5	1.5	2.2	2.0	.7	.2	.0*	.0*	.0	.0	.0	.0	.0	.0	.0	7.0	10.1
SSW	.3	1.4	3.4	3.2	.6	.2	.0*	.0	.0	.0	.0	.0	.0	.0	.0	9.2	10.6
SW	.4	1.3	1.9	2.1	.5	.1	.0*	.0	.0	.0	.0	.0	.0	.0	.0	6.3	10.3
WSW	.3	.9	1.7	1.9	.4	.2	.0*	.0	.0	.0	.0	.0	.0	.0	.0	5.4	10.7
W	.4	1.2	2.3	2.2	.6	.3	.0*	.0	.0	.0	.0	.0	.0	.0	.0	7.0	10.6
WNW	.2	.9	1.6	2.2	.8	.2	.0*	.0	.0	.0	.0	.0	.0	.0	.0	5.9	11.8
NW	.2	.7	1.4	1.8	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.7	11.1
NNW	.2	.9	1.8	2.1	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.6	10.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
ALL	7.2	19.8	30.5	28.4	6.9	2.1	.4	.0*	.0	.0	.0	.0	.0	.0	.0	100.0	9.5

TOTAL NO. OF OBS : 10407

NOTES : PERCENT < .05



## 2 - CEILING VS VISIBILITY

013750 : NORFOLK, VA  
PERIOD OF RECORD : 1945-1986  
CLASS : ALL WEATHER  
CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : MAR  
HOUR : 0100 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

## VISIBILITY (STATUTE MILES)

CEILING	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=2	>=1	1/2	>=1	>=3/4	>=5/8	>=1/2	>=5/16	>=1/4	>=0
UNLIMIT	11.4	52.6	55.0	55.8	56.3	56.4	56.5	56.7	56.7	56.7	56.8	56.8	56.8	56.8	56.8	56.8	56.8
>=20000	11.5	55.7	58.2	59.0	59.4	59.5	59.6	59.8	59.8	59.8	59.9	59.9	59.9	59.9	59.9	59.9	59.9
>=18000	11.5	55.7	58.2	59.0	59.4	59.5	59.6	59.8	59.8	59.8	59.9	59.9	59.9	59.9	59.9	59.9	59.9
>=16000	11.5	55.9	58.4	59.2	59.7	59.8	59.8	60.1	60.1	60.1	60.2	60.2	60.2	60.2	60.2	60.2	60.2
>=14000	11.5	56.1	58.7	59.5	60.0	60.1	60.2	60.4	60.4	60.4	60.5	60.5	60.5	60.5	60.5	60.5	60.5
>=12000	11.9	57.6	60.4	61.2	61.7	61.7	61.9	62.1	62.1	62.1	62.2	62.2	62.2	62.2	62.2	62.2	62.2
>=10000	11.9	60.8	63.6	64.4	64.9	65.0	65.1	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4
>=9000	11.9	61.0	63.9	64.6	65.1	65.2	65.4	65.6	65.6	65.6	65.7	65.7	65.7	65.7	65.7	65.7	65.7
>=8000	12.3	65.1	68.2	69.1	69.6	69.7	69.8	70.1	70.1	70.1	70.2	70.2	70.2	70.2	70.2	70.2	70.2
>=7000	12.4	66.1	69.2	70.1	70.6	70.7	70.9	71.1	71.1	71.1	71.2	71.2	71.2	71.2	71.2	71.2	71.2
>=6000	12.8	67.3	70.6	71.5	72.0	72.2	72.4	72.6	72.6	72.6	72.7	72.7	72.7	72.7	72.7	72.7	72.7
>=5000	13.0	68.9	72.4	73.3	73.9	74.0	74.2	74.4	74.4	74.4	74.5	74.5	74.5	74.5	74.5	74.5	74.5
>=4500	13.0	69.5	73.1	74.0	74.6	74.7	74.9	75.1	75.1	75.1	75.2	75.2	75.2	75.2	75.2	75.2	75.2
>=4000	13.1	72.3	76.0	77.0	77.6	77.8	78.0	78.2	78.2	78.2	78.3	78.3	78.3	78.3	78.3	78.3	78.3
>=3500	13.1	73.0	76.8	77.9	78.4	78.7	78.8	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1
>=3000	13.1	74.8	78.7	79.8	80.4	80.6	80.8	81.0	81.0	81.0	81.1	81.1	81.1	81.1	81.1	81.1	81.1
>=2500	13.3	76.1	80.2	81.3	81.9	82.1	82.3	82.5	82.5	82.5	82.6	82.6	82.6	82.6	82.6	82.6	82.6
>=2000	13.4	77.8	82.0	83.1	83.9	84.3	84.4	84.6	84.6	84.6	84.7	84.7	84.7	84.7	84.7	84.7	84.7
>=1800	13.4	77.8	82.0	83.2	84.0	84.3	84.5	84.7	84.7	84.7	84.8	84.8	84.8	84.8	84.8	84.8	84.8
>=1500	13.4	78.7	83.1	84.3	85.1	85.4	85.6	85.8	85.8	85.8	85.9	85.9	85.9	85.9	85.9	85.9	85.9
>=1200	13.4	80.1	84.6	85.9	86.7	87.0	87.2	87.5	87.5	87.5	87.6	87.6	87.6	87.6	87.6	87.6	87.6
>=1000	13.4	80.4	85.5	87.0	87.8	88.1	88.3	88.6	88.6	88.6	88.7	88.7	88.7	88.7	88.7	88.7	88.7
>=900	13.4	81.0	86.1	87.7	88.5	88.8	89.1	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4
>=800	13.4	81.5	86.9	88.7	89.7	90.0	90.4	90.6	90.6	90.6	90.7	90.7	90.7	90.7	90.7	90.7	90.7
>=700	13.4	81.9	87.5	89.6	90.9	91.2	91.6	91.8	91.8	91.8	91.9	91.9	91.9	91.9	91.9	91.9	91.9
>=600	13.4	81.9	87.6	89.8	91.3	91.7	92.3	92.5	92.5	92.5	92.6	92.6	92.6	92.6	92.6	92.6	92.6
>=500	13.4	82.5	88.5	91.0	93.0	93.5	94.1	94.3	94.4	94.4	94.5	94.5	94.6	94.6	94.6	94.6	94.6
>=400	13.4	82.7	88.8	91.7	93.9	94.3	95.4	95.7	95.7	95.7	95.8	95.9	96.0	96.0	96.0	96.0	96.0
>=300	13.4	82.7	88.8	91.7	94.1	94.6	96.0	96.4	96.5	96.5	96.6	96.9	96.9	96.9	96.9	96.9	96.9
>=200	13.4	82.7	88.8	91.8	94.3	94.7	96.3	96.9	97.0	97.0	97.4	97.6	97.8	97.9	98.0	98.0	98.0
>=100	13.4	82.7	88.8	91.9	94.3	94.8	96.4	97.0	97.2	97.2	97.6	97.8	98.0	98.1	98.2	98.3	98.8
>=0	13.4	82.7	88.8	91.9	94.3	94.8	96.4	97.0	97.2	97.2	97.6	97.8	98.0	98.1	98.3	98.5	100.0

TOTAL NO. OF OBS : 1270



## 2 - CEILING VS VISIBILITY

013750 : NORFOLK, VA  
 PERIOD OF RECORD : 1945-1986  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
 MONTH : MAR  
 HOUR : 0400 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)															
	>=10	>=6	>=5	>=4	>=3	>=2 1/2	>=2	>=1 1/2	>=1 1/4	>=1	>=3/4	>=5/8	>=1/2	>=5/16	>=1/4	>=0
UNLIMIT	10.2	50.5	52.9	54.1	54.5	54.5	54.8	55.1	55.1	55.1	55.1	55.1	55.2	55.2	55.2	55.2
>=20000	10.5	53.2	55.7	57.0	57.4	57.4	57.7	58.0	58.0	58.0	58.0	58.0	58.1	58.1	58.1	58.1
>=18000	10.5	53.2	55.7	57.0	57.4	57.4	57.7	58.0	58.0	58.0	58.0	58.0	58.1	58.1	58.1	58.1
>=16000	10.5	53.4	55.9	57.2	57.5	57.5	57.8	58.1	58.1	58.1	58.1	58.1	58.2	58.2	58.2	58.3
>=14000	10.5	53.5	56.1	57.4	57.7	57.8	58.1	58.4	58.4	58.4	58.4	58.4	58.5	58.5	58.5	58.5
>=12000	10.6	55.2	57.8	59.2	59.5	59.5	59.8	60.1	60.1	60.1	60.1	60.1	60.2	60.2	60.2	60.3
>=10000	10.8	58.8	61.6	62.9	63.2	63.3	63.5	63.8	63.8	63.8	63.8	63.8	63.9	63.9	63.9	64.0
>= 9000	10.8	59.2	62.1	63.4	63.7	63.8	64.0	64.3	64.3	64.3	64.3	64.3	64.4	64.4	64.4	64.5
>= 8000	11.3	63.1	66.0	67.4	67.7	67.8	68.0	68.3	68.3	68.3	68.3	68.3	68.4	68.4	68.4	68.5
>= 7000	11.5	64.8	67.8	69.1	69.4	69.5	69.7	70.0	70.0	70.0	70.0	70.0	70.1	70.1	70.1	70.2
>= 6000	11.5	65.6	68.6	70.0	70.3	70.4	70.7	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.1
>= 5000	11.8	67.6	71.0	72.5	72.8	72.8	73.2	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.7
>= 4500	12.0	68.4	72.0	73.5	73.9	73.9	74.3	74.6	74.6	74.6	74.6	74.6	74.7	74.7	74.7	74.8
>= 4000	12.0	69.9	73.6	75.0	75.4	75.5	75.8	76.2	76.2	76.2	76.2	76.2	76.3	76.3	76.3	76.4
>= 3500	12.1	70.8	74.7	76.2	76.7	76.8	77.1	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.6
>= 3000	12.2	72.4	76.3	77.8	78.3	78.4	78.7	79.1	79.1	79.1	79.1	79.1	79.2	79.2	79.2	79.3
>= 2500	12.2	73.5	77.5	79.0	79.6	79.7	80.0	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.5
>= 2000	12.3	75.3	79.4	81.5	82.1	82.2	82.5	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	83.0
>= 1800	12.3	75.7	79.9	81.5	82.1	82.2	82.5	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	83.0
>= 1500	12.3	76.6	80.8	82.6	83.3	83.3	83.7	84.1	84.1	84.1	84.1	84.1	84.2	84.2	84.2	84.3
>= 1200	12.3	77.6	81.9	84.0	84.8	84.9	85.3	85.7	85.7	85.7	85.7	85.7	85.8	85.8	85.8	85.8
>= 1000	12.3	79.4	84.0	86.2	86.9	87.1	87.6	88.0	88.0	88.0	88.0	88.0	88.1	88.1	88.1	88.2
>= 900	12.4	79.6	84.1	86.2	87.2	87.4	87.9	88.3	88.3	88.3	88.3	88.3	88.4	88.4	88.4	88.5
>= 800	12.4	80.0	84.5	86.6	87.9	88.1	88.7	89.0	89.0	89.0	89.0	89.0	89.1	89.1	89.1	89.2
>= 700	12.4	80.3	85.2	87.6	89.0	89.2	89.9	90.3	90.3	90.4	90.4	90.4	90.5	90.5	90.5	90.5
>= 600	12.4	80.7	86.0	88.5	90.2	90.4	91.2	91.5	91.5	91.7	91.7	91.7	91.8	91.8	91.8	91.9
>= 500	12.4	81.0	86.5	89.3	91.4	91.7	92.5	93.0	93.0	93.1	93.1	93.1	93.2	93.2	93.2	93.3
>= 400	12.4	81.1	87.0	89.7	92.0	92.5	93.4	94.1	94.1	94.3	94.3	94.3	94.4	94.4	94.4	94.5
>= 300	12.4	81.2	87.2	90.1	92.7	93.3	94.4	95.1	95.1	95.5	95.7	95.9	96.2	96.2	96.2	96.2
>= 200	12.4	81.2	87.2	90.3	93.0	93.7	95.1	96.0	96.0	96.6	96.9	97.2	97.4	97.4	97.4	97.6
>= 100	12.4	81.2	87.2	90.4	93.1	93.7	95.2	96.2	96.2	96.7	97.2	97.4	97.7	97.7	97.8	98.7
>= 0	12.4	81.2	87.2	90.4	93.1	93.7	95.3	96.2	96.2	96.8	97.3	97.5	97.8	97.8	98.0	100.0

TOTAL NO. OF OBS : 1278



# 2 - CEILING VS VISIBILITY

013750 : NORFOLK, VA  
 PERIOD OF RECORD : 1945-1986  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
 MONTH : MAR  
 HOUR : 0700 LST

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

### VISIBILITY (STATUTE MILES)

CEILING	>=10	>=6	>=5	>=4	>=3	>=2 1/2	>=2	>=1 1/2	>=1 1/4	>=1	>=3/4	>=5/8	>=1/2	>=5/16	>=1/4	>=0
UNLIMIT	5.6	39.7	44.0	46.4	47.6	48.0	48.6	48.7	48.7	49.0	49.1	49.1	49.1	49.1	49.1	49.2
>=20000	6.1	43.2	48.0	50.5	51.9	52.3	52.9	53.1	53.1	53.3	53.5	53.5	53.5	53.5	53.5	53.5
>=18000	6.1	43.2	48.0	50.5	52.0	52.4	53.0	53.1	53.1	53.4	53.5	53.5	53.5	53.5	53.5	53.6
>=16000	6.1	43.2	48.1	50.6	52.0	52.4	53.1	53.2	53.2	53.5	53.6	53.6	53.6	53.6	53.6	53.7
>=14000	6.4	43.8	49.0	51.6	53.0	53.4	54.0	54.2	54.2	54.4	54.6	54.6	54.6	54.6	54.6	54.6
>=12000	6.5	45.8	50.9	53.6	55.2	55.7	56.4	56.5	56.5	56.8	57.0	57.0	57.0	57.0	57.1	57.1
>=10000	6.8	50.2	56.0	58.9	60.6	61.1	61.8	61.9	61.9	62.2	62.4	62.4	62.4	62.4	62.4	62.5
>=9000	6.8	50.3	56.2	59.2	60.8	61.4	62.0	62.2	62.2	62.4	62.6	62.6	62.6	62.6	62.6	62.7
>=8000	7.1	54.2	60.6	63.8	65.8	66.3	67.0	67.2	67.2	67.4	67.7	67.7	67.7	67.7	67.7	67.7
>=7000	7.3	55.1	61.8	65.1	67.2	67.7	68.4	68.6	68.6	68.8	69.1	69.1	69.2	69.2	69.2	69.2
>=6000	7.6	56.4	63.1	66.5	68.6	69.2	69.9	70.1	70.1	70.3	70.6	70.6	70.6	70.6	70.6	70.7
>=5000	7.8	58.4	65.3	68.8	71.0	71.6	72.3	72.5	72.5	72.8	73.0	73.0	73.1	73.1	73.2	73.2
>=4500	7.8	59.2	66.1	69.8	72.1	72.6	73.4	73.6	73.6	73.9	74.1	74.1	74.2	74.2	74.3	74.3
>=4000	7.8	60.4	67.3	71.0	73.4	74.1	74.9	75.2	75.2	75.4	75.7	75.7	75.7	75.7	75.8	75.9
>=3500	7.8	60.8	67.9	71.7	74.2	74.9	75.7	76.0	76.0	76.2	76.5	76.5	76.5	76.5	76.6	76.7
>=3000	7.9	61.5	68.8	72.8	75.4	76.1	77.0	77.4	77.4	77.7	77.9	77.9	78.1	78.1	78.2	78.3
>=2500	8.1	62.0	69.5	73.6	76.2	77.0	77.9	78.3	78.3	78.6	78.9	78.9	79.0	79.0	79.1	79.2
>=2000	8.1	62.9	70.9	75.0	77.7	78.5	79.5	80.0	80.0	80.3	80.5	80.5	80.7	80.7	80.8	80.8
>=1800	8.1	63.1	71.3	75.4	78.2	79.0	80.1	80.5	80.5	80.8	81.1	81.1	81.2	81.2	81.3	81.4
>=1500	8.1	64.1	72.4	76.5	79.4	80.3	81.4	81.9	81.9	82.2	82.4	82.4	82.6	82.6	82.7	82.7
>=1200	8.2	65.1	73.5	77.9	80.9	81.9	83.0	83.4	83.4	83.8	84.0	84.0	84.1	84.1	84.2	84.3
>=1000	8.2	65.9	74.4	79.0	82.5	83.5	85.2	85.7	85.7	86.1	86.3	86.3	86.5	86.5	86.6	86.7
>=900	8.2	66.1	74.8	79.6	83.0	84.1	85.8	86.3	86.3	86.7	87.0	87.0	87.1	87.1	87.2	87.3
>=800	8.2	66.5	75.2	80.4	83.9	85.1	87.0	87.8	87.8	88.2	88.5	88.5	88.6	88.6	88.7	88.8
>=700	8.2	66.7	75.5	80.8	84.5	85.8	87.9	88.8	88.8	89.2	89.4	89.4	89.6	89.6	89.7	89.7
>=600	8.2	66.8	75.6	81.2	85.0	86.4	88.6	89.6	89.6	90.0	90.2	90.2	90.3	90.3	90.4	90.5
>=500	8.2	67.4	76.5	82.2	86.6	88.4	90.8	91.8	91.8	92.2	92.5	92.5	92.6	92.6	92.7	92.8
>=400	8.2	67.5	76.7	82.4	87.0	88.9	91.7	93.0	93.0	93.7	94.0	94.1	94.3	94.3	94.4	94.4
>=300	8.2	67.5	76.8	82.6	87.4	89.3	92.5	93.9	94.0	94.8	95.2	95.3	95.4	95.4	95.6	95.7
>=200	8.2	67.6	76.9	82.7	87.8	89.8	92.9	94.5	94.6	95.7	96.2	96.5	96.9	97.2	97.4	97.6
>=100	8.2	67.6	76.9	82.7	87.8	89.8	92.9	94.6	94.7	95.8	96.4	96.7	97.3	97.7	98.2	99.0
>=0	8.2	67.6	76.9	82.7	87.8	89.8	92.9	94.6	94.7	95.8	96.4	96.8	97.4	97.8	98.4	100.0

TOTAL NO. OF OBS : 1274



# 2 - CEILING VS VISIBILITY

013750 : NORFOLK, VA  
 PERIOD OF RECORD : 1945-1966  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
 MONTH : MAR  
 HOUR : 1000 LST

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)															
	>=10	>=6	>=5	>=4	>=3	>=2 1/2	>=2	>=1 1/2	>=1 1/4	>=1	>=3/4	>=5/8	>=1/2	>=5/16	>=1/4	>=0
UNLIMIT	8.0	46.4	48.9	49.6	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4
>=20000	8.8	51.5	54.3	55.1	55.8	55.8	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9
>=18000	8.8	51.6	54.4	55.3	56.1	56.1	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2
>=16000	8.8	51.7	54.5	55.4	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2	56.2
>=14000	8.9	52.4	55.2	56.1	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9
>=12000	9.0	53.6	56.6	57.6	58.4	58.4	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6
>=10000	9.3	56.5	59.8	60.9	61.7	61.7	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9
>= 9000	9.4	57.3	60.6	61.8	62.6	62.6	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7
>= 8000	9.8	61.3	65.2	66.5	67.5	67.5	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6
>= 7000	10.0	62.6	66.7	68.2	69.2	69.2	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3
>= 6000	10.2	63.4	67.7	69.2	70.3	70.3	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4
>= 5000	10.3	65.3	69.9	71.6	72.7	72.7	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9
>= 4500	10.4	65.9	70.5	72.2	73.3	73.3	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5
>= 4000	10.4	67.2	72.0	73.9	75.0	75.1	75.2	75.2	75.3	75.3	75.3	75.3	75.4	75.4	75.4	75.4
>= 3500	10.5	67.8	72.6	74.6	75.7	75.8	75.9	75.9	76.0	76.0	76.0	76.0	76.1	76.1	76.1	76.1
>= 3000	10.6	69.3	74.7	76.8	78.0	78.1	78.3	78.3	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4
>= 2500	10.7	70.2	75.8	78.0	79.2	79.4	79.5	79.5	79.6	79.6	79.6	79.6	79.7	79.7	79.7	79.7
>= 2000	10.9	71.6	77.3	79.7	81.1	81.3	81.4	81.6	81.7	81.7	81.7	81.8	81.8	81.8	81.8	81.8
>= 1800	10.9	72.0	77.6	80.1	81.5	81.6	82.0	82.0	82.1	82.1	82.1	82.2	82.2	82.2	82.2	82.2
>= 1500	11.1	73.2	79.0	81.5	83.1	83.2	83.4	83.5	83.5	83.7	83.7	83.7	83.8	83.8	83.8	83.8
>= 1200	11.2	74.4	80.6	83.5	85.5	85.8	86.0	86.3	86.3	86.4	86.4	86.4	86.5	86.5	86.5	86.5
>= 1000	11.2	75.1	81.6	84.7	86.9	87.5	87.8	88.1	88.1	88.2	88.3	88.3	88.4	88.4	88.4	88.4
>= 900	11.2	75.1	81.6	84.9	87.1	87.7	88.0	88.3	88.3	88.5	88.6	88.6	88.7	88.7	88.7	88.7
>= 800	11.2	75.4	82.2	85.6	88.2	88.8	89.2	89.6	89.6	89.8	90.0	90.0	90.0	90.0	90.0	90.0
>= 700	11.2	75.8	82.7	86.2	88.9	89.6	90.0	90.6	90.7	90.8	91.0	91.0	91.1	91.1	91.1	91.1
>= 600	11.2	75.9	83.0	86.7	89.6	90.4	91.0	91.6	91.7	92.0	92.2	92.2	92.2	92.2	92.2	92.2
>= 500	11.2	76.1	83.4	87.2	90.6	91.6	92.8	93.7	93.8	94.1	94.3	94.3	94.4	94.5	94.5	94.5
>= 400	11.2	76.1	83.4	87.4	90.9	92.1	93.5	94.7	94.8	95.5	95.8	95.9	96.1	96.2	96.2	96.2
>= 300	11.2	76.1	83.4	87.4	91.1	92.3	94.2	95.7	95.8	96.7	97.1	97.3	97.6	97.7	97.7	97.7
>= 200	11.2	76.1	83.4	87.4	91.1	92.4	94.4	96.0	96.2	97.2	97.8	98.1	98.7	98.9	99.1	99.3
>= 100	11.2	76.1	83.4	87.4	91.1	92.4	94.4	96.1	96.2	97.3	97.9	98.2	98.9	99.1	99.4	99.7
>= 0	11.2	76.1	83.4	87.4	91.1	92.4	94.4	96.1	96.2	97.3	97.9	98.2	98.9	99.1	99.4	100.0

TOTAL NO. OF OBS : 1275



## 2 - CEILING VS VISIBILITY

013750 : NORFOLK, VA  
PERIOD OF RECORD : 1945-1986  
CLASS : ALL WEATHER  
CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : MAR  
HOUR : 1300 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

## VISIBILITY (STATUTE MILES)

CEILING	>=10	>=6	>=5	>=4	>=3	>=2 1/2	>=2	>=1 1/2	>=1	>=3/4	>=5/8	>=1/2	>=5/16	>=1/4	>=0
UNLIMIT	12.8	48.0	48.7	49.3	49.3	49.3	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4	49.4
>=20000	13.7	53.1	53.9	54.5	54.5	54.5	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6	54.6
>=18000	13.8	53.3	54.2	54.8	54.8	54.8	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9
>=16000	13.8	53.4	54.2	54.9	54.9	54.9	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0
>=14000	13.9	54.2	55.0	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7
>=12000	14.2	55.3	56.6	57.2	57.2	57.2	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3	57.3
>=10000	14.6	58.7	60.5	61.1	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2	61.2
>= 9000	14.8	59.1	60.8	61.5	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6
>= 8000	15.2	62.3	64.5	65.3	65.4	65.4	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5
>= 7000	15.3	63.1	65.5	66.3	66.4	66.4	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6
>= 6000	15.9	64.4	66.8	67.6	67.8	67.8	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9
>= 5000	16.4	66.2	68.9	69.7	69.9	70.0	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1
>= 4500	16.5	66.6	69.3	70.3	70.4	70.5	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7
>= 4000	16.7	69.5	72.7	73.7	74.0	74.1	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2
>= 3500	17.0	71.1	74.4	75.6	75.9	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1
>= 3000	17.4	74.8	78.5	79.8	80.3	80.7	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9
>= 2500	17.5	75.9	79.8	81.1	81.8	82.2	82.4	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5
>= 2000	17.7	77.7	81.9	83.4	84.1	84.7	84.8	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9
>= 1800	17.7	78.0	82.2	83.7	84.5	85.1	85.2	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3
>= 1500	17.8	79.3	83.9	85.5	86.6	87.2	87.3	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4
>= 1200	17.9	79.7	84.5	86.3	87.6	88.4	88.5	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6
>= 1000	17.9	80.2	85.3	87.6	89.2	90.1	90.5	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6
>= 900	17.9	80.6	85.8	88.1	90.1	91.0	91.4	91.5	91.6	91.6	91.6	91.6	91.6	91.6	91.6
>= 800	17.9	80.7	86.2	88.7	90.8	91.9	92.4	92.5	92.5	92.5	92.5	92.6	92.6	92.6	92.6
>= 700	17.9	81.1	86.6	89.3	91.6	92.8	93.3	93.6	93.7	93.7	93.7	93.8	93.8	93.8	93.8
>= 600	17.9	81.2	86.7	89.4	91.8	93.2	93.8	94.2	94.3	94.3	94.4	94.6	94.6	94.6	94.6
>= 500	17.9	81.2	86.8	89.5	92.3	94.2	94.9	95.3	95.5	95.6	95.7	95.8	95.8	95.8	95.8
>= 400	17.9	81.2	86.8	89.5	92.5	94.5	95.4	96.1	96.5	96.7	96.8	97.0	97.1	97.1	97.1
>= 300	17.9	81.2	86.9	89.6	92.7	94.7	96.1	97.0	97.1	97.6	98.1	98.4	98.4	98.5	98.5
>= 200	17.9	81.2	86.9	89.6	92.7	94.8	96.5	97.4	97.5	98.0	98.7	99.0	99.1	99.2	99.3
>= 100	17.9	81.2	86.9	89.6	92.7	94.8	96.5	97.4	97.5	98.0	98.7	99.1	99.2	99.4	99.8
>= 0	17.9	81.2	86.9	89.6	92.7	94.8	96.5	97.4	97.5	98.0	98.7	99.1	99.2	99.4	100.0

TOTAL NO. OF OBS : 1272



## 2 - CEILING VS VISIBILITY

013750 : NORFOLK, VA  
PERIOD OF RECORD : 1945-1986  
CLASS : ALL WEATHER  
CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : MAR  
HOUR : 1600 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)									
	>=10	>=6	>=5	>=4	>=3	>=2 1/2	>=2	>=1 1/2	>=1 1/4	>=1
UNLIMIT	13.3	47.3	48.5	48.9	49.2	49.3	49.3	49.3	49.3	49.3
>=20000	14.5	52.2	53.7	54.2	54.5	54.6	54.6	54.6	54.6	54.6
>=18000	14.6	52.6	54.1	54.5	54.8	54.9	54.9	54.9	54.9	54.9
>=16000	14.6	52.6	54.1	54.6	54.8	55.0	55.0	55.0	55.0	55.0
>=14000	14.7	53.3	54.8	55.2	55.5	55.6	55.6	55.6	55.6	55.6
>=12000	14.9	54.5	55.9	56.5	56.7	56.9	56.9	56.9	56.9	56.9
>=10000	15.2	57.1	59.1	59.7	59.9	60.1	60.1	60.1	60.1	60.1
>=9000	15.2	57.7	59.7	60.2	60.4	60.6	60.7	60.7	60.7	60.7
>=8000	15.8	61.9	64.2	64.9	65.2	65.4	65.5	65.5	65.5	65.5
>=7000	15.9	63.3	65.7	66.4	66.9	67.1	67.2	67.2	67.2	67.2
>=6000	16.3	64.7	67.2	68.0	68.5	68.7	68.8	68.8	68.8	68.8
>=5000	17.0	67.0	69.6	70.4	71.0	71.2	71.3	71.3	71.3	71.3
>=4500	17.0	68.1	70.7	71.6	72.1	72.3	72.4	72.4	72.4	72.4
>=4000	17.2	71.4	74.2	75.3	75.9	76.2	76.3	76.3	76.3	76.3
>=3500	17.4	72.9	75.8	77.0	77.8	78.1	78.2	78.2	78.2	78.2
>=3000	17.6	75.0	78.6	79.9	80.9	81.3	81.4	81.4	81.4	81.4
>=2500	17.7	76.8	80.5	81.9	82.8	83.1	83.4	83.4	83.4	83.4
>=2000	17.9	78.5	82.3	84.0	85.0	85.3	85.6	85.7	85.7	85.7
>=1800	18.0	78.8	82.7	84.4	85.5	85.8	86.1	86.1	86.1	86.1
>=1500	18.0	79.7	83.9	85.7	87.0	87.5	88.0	88.0	88.0	88.0
>=1200	18.0	79.7	84.1	86.2	87.6	88.2	88.8	88.8	88.8	88.8
>=1000	18.0	80.1	84.7	86.9	88.4	89.0	89.6	89.9	89.9	89.9
>=900	18.0	80.2	84.9	87.3	89.0	89.8	90.5	90.8	90.8	90.8
>=800	18.0	80.5	85.3	87.9	89.9	90.7	91.6	92.0	92.0	92.0
>=700	18.0	80.8	85.6	88.3	90.6	91.8	92.9	93.3	93.4	93.4
>=600	18.0	80.8	85.7	88.6	90.9	92.2	93.5	94.0	94.1	94.1
>=500	18.0	80.9	85.9	88.9	91.6	92.8	95.0	95.6	95.9	96.0
>=400	18.0	80.9	86.0	89.1	91.8	93.1	95.4	96.2	96.3	96.6
>=300	18.0	80.9	86.0	89.1	91.9	93.2	95.7	96.9	97.1	97.6
>=200	18.0	80.9	86.0	89.1	91.9	93.2	95.8	97.2	97.4	98.2
>=100	18.0	80.9	86.0	89.1	91.9	93.2	95.8	97.2	97.4	98.2
>=	18.0	80.9	86.0	89.1	91.9	93.2	95.8	97.2	97.4	98.2

TOTAL NO. OF OBS : 1269



## 2 - CEILING VS VISIBILITY

013750 : NORFOLK, VA  
PERIOD OF RECORD : 1945-1986  
CLASS : ALL WEATHER  
CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : MAR  
HOUR : 1900 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)									
	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=1	>=3/4	>=1/2
UNLIMIT	10.2	51.9	53.8	54.3	54.7	54.7	54.9	55.0	55.0	55.0
>=20000	10.6	56.4	58.3	58.9	59.4	59.5	59.7	59.8	59.8	59.8
>=18000	10.7	56.5	58.5	59.1	59.6	59.7	59.8	60.0	60.0	60.0
>=16000	10.7	56.6	58.6	59.2	59.7	59.9	60.0	60.0	60.0	60.0
>=14000	10.8	57.3	59.3	59.9	60.4	60.6	60.8	60.8	60.8	60.8
>=12000	10.8	58.4	60.4	61.0	61.5	61.7	61.9	61.9	61.9	61.9
>=10000	10.9	61.4	63.4	64.2	64.7	64.9	65.1	65.1	65.1	65.1
>= 9000	10.9	61.8	63.8	64.7	65.2	65.3	65.5	65.7	65.7	65.7
>= 8000	11.1	66.1	68.1	69.2	69.7	69.8	70.0	70.2	70.2	70.2
>= 7000	11.5	67.5	69.9	70.9	71.4	71.5	71.7	71.9	71.9	71.9
>= 6000	11.9	68.4	70.8	71.9	72.4	72.5	72.8	72.9	72.9	72.9
>= 5000	12.2	70.4	73.1	74.3	74.8	74.9	75.1	75.3	75.3	75.3
>= 4500	12.2	71.7	74.4	75.7	76.2	76.3	76.5	76.7	76.7	76.7
>= 4000	12.2	74.4	77.2	78.6	79.3	79.4	79.6	79.7	79.7	79.7
>= 3500	12.2	75.5	78.4	79.8	80.5	80.6	80.9	81.1	81.1	81.1
>= 3000	12.2	76.8	79.9	81.6	82.3	82.4	82.9	83.0	83.1	83.1
>= 2500	12.2	77.7	81.2	82.9	83.7	83.9	84.4	84.5	84.6	84.6
>= 2000	12.2	79.0	82.7	84.5	85.3	85.6	86.1	86.3	86.3	86.3
>= 1800	12.2	79.1	82.8	84.7	85.6	85.9	86.3	86.5	86.6	86.6
>= 1500	12.2	79.5	83.7	85.7	86.6	86.9	87.4	87.6	87.7	87.7
>= 1200	12.2	80.1	84.7	87.0	87.9	88.2	88.9	89.0	89.1	89.1
>= 1000	12.2	80.5	85.2	87.9	89.0	89.3	90.2	90.3	90.4	90.4
>= 900	12.2	80.5	85.3	88.3	89.5	89.9	90.7	90.9	91.0	91.0
>= 800	12.2	81.0	85.8	88.8	90.1	90.5	91.4	91.5	91.6	91.6
>= 700	12.2	81.1	86.2	89.2	90.8	91.2	92.3	92.5	92.6	92.6
>= 600	12.2	81.4	86.7	89.8	91.4	91.9	93.1	93.3	93.6	93.6
>= 500	12.2	81.6	87.0	90.2	92.2	92.6	94.0	94.3	94.6	94.6
>= 400	12.2	81.6	87.2	90.5	92.7	93.2	94.8	95.2	95.5	95.6
>= 300	12.2	81.6	87.2	90.6	93.0	93.6	95.3	95.8	96.8	96.9
>= 200	12.2	81.7	87.3	90.7	93.3	94.1	95.8	96.3	97.6	98.2
>= 100	12.2	81.7	87.3	90.7	93.3	94.1	95.8	96.3	98.1	98.9
>= 0	12.2	81.7	87.3	90.7	93.3	94.1	95.8	96.3	98.1	99.2

TOTAL NO. OF OBS : 1274



## 2 - CEILING VS VISIBILITY

013750 : NORFOLK, VA  
 PERIOD OF RECORD : 1945-1986  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
 MONTH : MAR  
 HOUR : 2200 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

## VISIBILITY (STATUTE MILES)

CEILING	>=10	>=6	>=5	>=4	>=3	>=2 1/2	>=2	>=1 1/2	>=1 1/4	>=1	>=3/4	>=5/8	>=1/2	>=5/16	>=1/4	>=0
UNLIMIT	9.6	55.8	57.3	57.9	58.5	58.5	58.5	58.7	58.7	58.8	58.8	58.8	58.8	58.8	58.8	58.8
>=20000	10.0	58.4	59.9	60.5	61.1	61.1	61.1	61.3	61.3	61.4	61.4	61.4	61.4	61.4	61.4	61.4
>=18000	10.0	58.6	60.1	60.7	61.4	61.4	61.4	61.5	61.5	61.6	61.6	61.6	61.6	61.6	61.6	61.6
>=16000	10.0	58.8	60.3	60.9	61.5	61.5	61.5	61.7	61.7	61.8	61.8	61.8	61.8	61.8	61.8	61.8
>=14000	10.1	59.2	60.7	61.3	61.8	61.8	61.9	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1
>=12000	10.2	60.3	61.8	62.5	63.1	63.1	63.1	63.2	63.2	63.3	63.3	63.3	63.3	63.3	63.3	63.3
>=10000	10.5	63.0	64.7	65.3	65.8	65.9	65.9	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1
>= 9000	10.5	63.2	64.8	65.5	66.1	66.1	66.1	66.3	66.3	66.4	66.4	66.4	66.4	66.4	66.4	66.4
>= 8000	10.9	67.2	68.9	69.6	70.1	70.2	70.2	70.4	70.4	70.5	70.5	70.5	70.5	70.5	70.5	70.5
>= 7000	11.1	68.7	70.6	71.3	71.9	72.0	72.0	72.2	72.2	72.3	72.3	72.3	72.3	72.3	72.3	72.3
>= 6000	11.3	69.9	71.8	72.6	73.2	73.3	73.3	73.4	73.4	73.5	73.5	73.5	73.5	73.5	73.5	73.5
>= 5000	11.5	72.4	74.5	75.4	76.1	76.2	76.3	76.3	76.3	76.4	76.4	76.4	76.4	76.4	76.4	76.4
>= 4500	11.5	73.2	75.5	76.4	77.1	77.2	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4
>= 4000	11.7	75.4	78.1	79.0	79.6	79.7	79.8	79.9	79.9	80.0	80.0	80.0	80.0	80.0	80.0	80.0
>= 3500	11.7	76.3	79.1	79.9	80.6	80.7	80.8	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0
>= 3000	11.7	78.6	81.8	82.7	83.3	83.5	83.6	83.8	83.8	83.9	83.9	83.9	83.9	83.9	83.9	83.9
>= 2500	11.8	79.2	82.5	83.5	84.2	84.3	84.5	84.6	84.6	84.7	84.7	84.7	84.7	84.7	84.7	84.7
>= 2000	11.8	80.3	83.9	85.0	86.0	86.1	86.3	86.4	86.4	86.5	86.5	86.5	86.5	86.5	86.5	86.5
>= 1800	11.8	80.4	84.0	85.1	86.1	86.3	86.4	86.6	86.6	86.7	86.7	86.7	86.7	86.7	86.7	86.7
>= 1500	11.9	81.3	85.3	86.4	87.4	87.6	87.8	87.9	87.9	88.0	88.0	88.0	88.0	88.0	88.0	88.0
>= 1200	11.9	81.7	85.9	87.2	88.2	88.4	88.6	88.8	88.8	88.9	88.9	88.9	88.9	88.9	88.9	88.9
>= 1000	11.9	82.2	86.6	88.1	89.1	89.5	89.7	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0
>= 900	11.9	82.4	87.1	88.7	89.7	90.1	90.4	90.6	90.6	90.7	90.7	90.7	90.7	90.7	90.7	90.7
>= 800	11.9	82.6	87.5	89.2	90.5	91.1	91.3	91.5	91.5	91.6	91.6	91.6	91.6	91.6	91.6	91.6
>= 700	11.9	82.7	87.7	89.6	91.3	91.8	92.1	92.3	92.3	92.4	92.4	92.4	92.4	92.4	92.4	92.4
>= 600	11.9	82.9	88.2	90.2	92.0	92.6	92.9	93.2	93.2	93.3	93.3	93.3	93.3	93.3	93.3	93.3
>= 500	11.9	83.2	88.6	90.8	92.8	93.5	94.0	94.3	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4
>= 400	11.9	83.2	88.8	91.1	93.3	94.0	94.6	95.0	95.1	95.3	95.3	95.3	95.3	95.3	95.3	95.3
>= 300	11.9	83.2	88.9	91.2	93.6	94.4	95.4	95.9	96.1	96.5	96.6	96.6	96.6	96.6	96.6	96.6
>= 200	11.9	83.2	88.9	91.3	93.8	94.6	95.8	96.6	96.8	97.5	97.6	97.7	97.8	98.0	98.1	98.1
>= 100	11.9	83.2	88.9	91.3	93.8	94.6	95.8	96.7	96.9	97.6	97.8	97.9	98.3	98.7	98.7	99.1
>= 0	11.9	83.2	88.9	91.3	93.8	94.6	95.8	96.7	96.9	97.6	97.8	97.9	98.3	98.7	98.8	100.0

TOTAL NO. OF OBS : 1276



## 2 - CEILING VS VISIBILITY

013750 : NORFOLK, VA  
PERIOD OF RECORD : 1945-1986  
CLASS : ALL WEATHER  
CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : MAR  
HOUR : ALL

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)									
	>=10	>=6	>=5	>=4	>=3	>=2 1/2	>=2	>=1 1/2	>=1 1/4	>=1
UNLIMIT	10.1	49.0	51.1	52.1	52.5	52.6	52.8	52.9	52.9	53.0
>=20000	10.7	52.9	55.3	56.2	56.7	56.8	57.0	57.1	57.1	57.2
>=18000	10.7	53.1	55.4	56.4	56.9	57.0	57.2	57.3	57.3	57.4
>=16000	10.7	53.2	55.5	56.5	57.0	57.1	57.3	57.4	57.4	57.5
>=14000	10.8	53.7	56.1	57.1	57.6	57.7	57.9	58.0	58.0	58.1
>=12000	11.0	55.1	57.6	58.6	59.1	59.3	59.4	59.6	59.6	59.7
>=10000	11.2	58.3	61.1	62.2	62.8	62.9	63.0	63.2	63.2	63.3
>=9000	11.3	58.7	61.5	62.6	63.2	63.3	63.5	63.6	63.6	63.7
>=8000	11.7	62.7	65.7	67.0	67.6	67.8	67.9	68.1	68.1	68.2
>=7000	11.9	63.9	67.1	68.4	69.1	69.3	69.5	69.6	69.6	69.7
>=6000	12.2	65.0	68.3	69.7	70.4	70.5	70.7	70.9	70.9	71.0
>=5000	12.5	67.0	70.6	72.0	72.8	72.9	73.1	73.3	73.3	73.4
>=4500	12.6	67.8	71.5	72.9	73.7	73.9	74.1	74.3	74.3	74.4
>=4000	12.6	70.1	73.9	75.5	76.3	76.5	76.7	76.9	76.9	77.0
>=3500	12.7	71.0	75.0	76.6	77.5	77.7	77.9	78.1	78.2	78.2
>=3000	12.8	72.9	77.1	78.9	79.8	80.1	80.4	80.6	80.7	80.8
>=2500	12.9	73.9	78.4	80.2	81.2	81.5	81.8	82.0	82.0	82.1
>=2000	13.0	75.4	80.1	82.0	83.1	83.4	83.8	84.0	84.1	84.2
>=1800	13.0	75.6	80.3	82.3	83.4	83.8	84.1	84.3	84.4	84.5
>=1500	13.1	76.6	81.5	83.5	84.8	85.2	85.6	85.8	85.9	86.0
>=1200	13.1	77.3	82.5	84.8	86.2	86.6	87.0	87.3	87.3	87.4
>=1000	13.1	78.0	83.4	85.9	87.5	88.0	88.6	88.9	89.0	89.1
>=900	13.2	78.2	83.7	86.4	88.0	88.6	89.2	89.5	89.6	89.7
>=800	13.2	78.5	84.2	87.0	88.9	89.5	90.2	90.6	90.7	90.8
>=700	13.2	78.8	84.6	87.6	89.7	90.4	91.3	91.6	91.8	91.9
>=600	13.2	78.9	84.9	88.0	90.3	91.1	92.0	92.5	92.7	92.8
>=500	13.2	79.2	85.4	88.6	91.3	92.3	93.5	94.0	94.3	94.5
>=400	13.2	79.3	85.6	88.9	91.8	92.8	94.3	95.0	95.4	95.7
>=300	13.2	79.3	85.6	89.0	92.0	93.2	94.9	95.8	96.5	97.0
>=200	13.2	79.3	85.7	89.1	92.2	93.4	95.3	96.4	96.5	97.8
>=100	13.2	79.3	85.7	89.1	92.3	93.4	95.4	96.4	96.5	97.9
>= 0	13.2	79.3	85.7	89.1	92.3	93.4	95.4	96.4	96.5	98.0

TOTAL NO. OF OBS : 10188



# 1 - SURFACE WINDS

013750 : NORFOLK, VA  
 PERIOD OF RECORD : 1945-1986  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
 MONTH : APR  
 HOUR : 0100 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

DIP.	SPEED (KNOTS)											TOTAL	MEAN
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>=56	#	WIND SPEED
N	.4	.4	1.0	1.8	1.3	.1	.0	.0	.0	.0	.0	5.0	12.6
NNE	.2	.8	1.4	1.5	.4	.4	.1	.0	.0	.0	.0	4.8	11.6
NE	.5	.3	1.2	.9	.4	.0	.0	.0	.0	.0	.0	3.3	9.6
ENE	.2	.6	1.0	.9	.2	.0	.0	.0	.0	.0	.0	2.9	9.2
E	1.3	1.6	1.3	.2	.0	.0	.0	.0	.0	.0	.0	4.4	5.7
ESE	.6	1.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	2.1	5.1
SE	1.0	1.1	.7	.2	.1	.0	.0	.0	.0	.0	.0	3.1	6.0
SSE	1.7	2.7	1.4	.6	.0	.0	.0	.0	.0	.0	.0	6.4	5.5
S	1.7	2.5	4.3	2.1	.5	.1	.0	.0	.0	.0	.0	11.3	8.2
SSW	1.1	2.7	6.9	5.6	.7	.1	.0	.0	.0	.0	.0	17.1	9.6
SW	.6	2.1	2.5	2.2	.2	.0	.0	.0	.0	.0	.0	7.6	8.7
WSW	.5	1.7	1.1	1.0	.2	.0	.0	.0	.0	.0	.0	4.4	7.6
W	.2	1.4	1.5	1.2	.3	.0	.0	.0	.0	.0	.0	4.6	9.1
WNW	.2	1.0	1.5	.7	.2	.0	.0	.0	.0	.0	.0	3.5	8.6
NW	.2	1.0	1.5	1.4	.1	.0	.0	.0	.0	.0	.0	4.3	9.1
NNW	.2	.6	2.9	1.8	.4	.0	.0	.0	.0	.0	.0	6.0	10.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.1	.0
ALL	10.6	21.5	31.0	22.2	4.9	.6	.1	.0	.0	.0	.0	100.0	8.0

TOTAL NO. OF OBS : 1260

NOTES : \* = PERCENT < .05



# 1 - SURFACE WINDS

013750 : NORFOLK, VA  
 PERIOD OF RECORD : 1945-1986  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT

MONTH : APR  
 HOUR : 0400 LST

PERCENTAGE FREQUENCY OF WIND  
 DIRECTION VS SPEED  
 (FROM HOURLY OBSERVATIONS)

	16-21	22-27	28-33	34-40	41-47	48-55	>=56	TOTAL	MEAN
DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	%	WIND SPEED
N	.2	.9	1.4	2.1	.9	.1	.0	5.7	11.6
NNE	.2	.6	1.0	2.5	.5	.2	.0	5.5	13.2
NE	.6	.8	1.8	1.2	.2	.1	.0	4.7	8.8
ENE	.7	.9	1.6	.6	.2	.0	.0	4.0	7.9
E	1.0	1.0	.8	.4	.1	.0	.0	3.3	6.4
ESE	.6	.8	.4	.0	.0	.0	.0	1.7	4.8
SE	1.3	1.2	.6	.1	.0	.0	.0	3.1	4.5
SSE	1.3	2.1	1.1	.2	.1	.0	.0	4.7	5.5
S	1.3	2.4	3.0	1.6	.4	.0	.0	8.7	7.8
SSW	.9	2.6	5.8	4.8	.5	.0	.0	14.5	9.4
SW	1.4	2.7	3.5	1.8	.1	.0	.0	9.5	7.7
WSW	1.0	1.0	1.6	.8	.1	.1	.0	4.5	7.8
W	1.4	1.8	1.7	1.8	.2	.0	.0	6.7	8.3
WNW	.2	.9	1.5	.9	.2	.0	.0	3.7	9.3
NW	.2	1.5	2.5	1.1	.0	.0	.0	5.4	8.3
NNW	.2	.9	2.4	2.1	.4	.1	.0	6.1	10.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLM	.0	.0	.0	.0	.0	.0	.0	.0	.0
ALL	12.4	22.1	30.6	21.9	3.7	.9	.3	100.0	7.9

TOTAL NO. OF OBS : 1260

NOTES :  
 \* = PERCENT < .05



# 1 - SURFACE WINDS

013750 : NORFOLK, VA  
 PERIOD OF RECORD : 1945-1986  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
 MONTH : APR  
 HOUR : 0700 LST

PERCENTAGE FREQUENCY OF WIND  
 DIRECTION VS SPEED  
 (FROM HOURLY OBSERVATIONS)

16 PT. DIR.	SPEED (KNOTS)											TOTAL %	MEAN WIND SPEED
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>=56		
N	.6	.6	2.0	2.5	1.0	.2	.0	.0	.0	.0	.0	6.9	11.1
NNE	.1	.6	1.7	1.7	.3	.4	.1	.0	.0	.0	.0	4.8	12.0
NE	.2	1.2	1.6	1.5	.5	.2	.0	.0	.0	.0	.0	5.1	10.4
ENE	.5	1.4	1.9	.8	.4	.1	.0	.0	.0	.0	.0	5.1	9.0
E	.2	1.7	1.3	.6	.0	.0	.0	.0	.0	.0	.0	3.7	6.9
ESE	.6	.6	.6	.1	.1	.0	.0	.0	.0	.0	.0	1.9	5.9
SE	.7	.6	.9	.2	.1	.0	.0	.0	.0	.0	.0	2.5	6.5
SSE	.8	1.3	1.3	.4	.0	.0	.0	.0	.0	.0	.0	3.9	6.6
S	1.0	2.4	2.7	1.5	.2	.0	.0	.0	.0	.0	.0	7.8	7.8
SSW	.6	3.3	4.1	4.5	.7	.0	.1	.0	.0	.0	.0	13.3	9.7
SW	.6	1.9	4.0	2.1	.5	.2	.0	.0	.0	.0	.0	9.4	9.4
WSW	.5	1.3	2.8	1.6	.2	.2	.0	.0	.0	.0	.0	6.5	9.4
W	.5	2.3	2.5	1.9	.2	.0	.0	.0	.0	.0	.0	7.3	8.4
WNW	.2	1.0	1.0	.7	.1	.0	.0	.0	.0	.0	.0	3.0	8.4
NW	.6	1.2	2.6	1.5	.1	.1	.0	.0	.0	.0	.0	6.0	8.9
NNW	.3	1.3	2.7	2.5	.6	.0	.0	.0	.0	.0	.0	7.4	10.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.6	.0
ALL	7.8	22.6	33.7	24.1	4.8	1.3	.2	.0	.0	.0	.0	100.0	8.7

TOTAL NO. OF OBS : 1260

NOTES :  
 \* = PERCENT < .05



# 1 - SURFACE WINDS

013750 : NORFOLK, VA  
 PERIOD OF RECORD : 1945-1986  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
 MONTH : APR  
 HOUR : 1000 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

16 PT.	SPEED (KNOTS)																TOTAL	MEAN	
	DIR.	1	-	3	4	-	6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>=56			%
N		7		2.2			3.3	2.6		.8		.1		.0		.0		9.7	9.4
NNE		.5		2.1			4.2	2.5		1.0		.3		.0		.0		10.7	10.1
NE		.2		1.7			1.7	1.5		.5		.0		.0		.0		5.6	9.6
ENE		.2		1.2			2.5	1.3		.0		.2		.0		.0		5.3	9.3
E		.3		1.2			2.6	.4		.1		.1		.0		.0		4.7	8.1
ESE		.2		.6			.6	.4		.0		.0		.0		.0		1.7	7.4
SE		.2		.8			.9	.2		.1		.0		.0		.0		2.2	7.3
SSE		.0		.5			1.1	.7		.1		.1		.0		.0		2.5	10.1
S		.2		1.0			1.7	1.7		.5		.0		.0		.0		5.2	10.0
SSW		.3		1.5			3.3	4.4		1.0		.3		.0		.0		10.8	11.2
SW		.2		1.0			1.8	3.9		.6		.2		.0		.0		7.8	11.6
WSW		.4		1.7			3.8	2.8		.8		.2		.0		.0		9.8	10.3
W		.6		2.2			3.6	2.9		.3		.1		.0		.0		9.6	9.4
WNW		.4		.6			1.7	2.1		.3		.1		.0		.0		5.2	10.8
NW		.1		1.0			1.4	.9		.1		.0		.0		.0		3.4	9.0
NNW		.2		.6			1.2	2.1		.4		.0		.0		.0		4.5	10.7
VAR		.0		.0			.0	.0		.0		.0		.0		.0		.0	.0
CLM		.0		.0			.0	.0		.0		.0		.0		.0		1.3	.0
ALL	4.8		19.8		35.5		30.4	6.5		1.7		.0		.0		.0		103.0	9.8

TOTAL NO. OF OBS : 1260

NOTES : \* = PERCENT < .05



# 1 - SURFACE WINDS

013750 : NORFOLK, VA  
 PERIOD OF RECORD : 1945-1986  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
 MONTH : APR  
 HOUR : 1300 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

16 PT.	1	2	3	4	5	6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>=56	TOTAL	MEAN
DIR.	1	2	3	4	5	6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>=56	2	WIND
																	SPEED
N	1.0	2.3	1.1	1.6	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.4	8.4
NNE	.5	3.0	4.0	4.1	1.3	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	13.0	10.1
NE	.5	2.5	3.7	2.0	.2	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	8.9	8.8
ENE	.3	2.9	3.9	2.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.6	8.7
E	.1	1.3	2.9	1.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.4	8.5
ESE	.0	.3	1.0	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	8.9
SE	.1	.2	.7	.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6	10.6
SSE	.4	.6	.5	.6	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.3	9.0
S	.2	.5	1.6	1.9	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	4.4	10.9
SSW	.0	.5	2.2	5.2	.9	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	9.0	12.9
SW	.2	.5	1.9	2.5	1.0	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	6.5	12.7
WSW	.3	1.3	2.2	3.0	1.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.2	11.4
W	.2	2.0	3.2	3.3	.6	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.6	10.6
WNW	.1	.4	2.1	2.9	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.3	12.1
NW	.2	.2	1.3	1.1	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.3	11.2
NNW	.5	.4	.8	1.0	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.9	9.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
ALL	4.3	18.8	33.0	33.2	7.6	1.9	.3	.0	.0	.0	.0	.0	.0	.0	.0	100.0	10.3

TOTAL NO. OF OBS : 1260

NOTES : \* = PERCENT < .05



# 1 - SURFACE WINDS

013750 : NORFOLK, VA  
 PERIOD OF RECORD : 1945-1986  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
 MONTH : APR  
 HOUR : 1600 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

DIR.	SPEED (KNOTS)										TOTAL Σ	MEAN WIND SPEED
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>56	
N	.9	.7	.9	1.0	.9	.1	.0	.0	.0	.0	.0	4.4
NNE	.7	1.0	1.7	2.8	.6	.2	.0	.0	.0	.0	.0	7.1
NE	.4	2.4	2.8	1.8	.3	.2	.0	.0	.0	.0	.0	7.9
ENE	.8	3.0	5.6	2.2	.4	.0	.0	.0	.0	.0	.0	12.0
E	.6	4.3	5.6	1.4	.2	.0	.0	.0	.0	.0	.0	12.2
ESE	.1	.8	2.4	.9	.1	.0	.0	.0	.0	.0	.0	4.2
SE	.1	.2	2.1	1.8	.4	.0	.0	.0	.0	.0	.0	4.6
SSE	.1	.3	1.0	1.2	.2	.0	.1	.0	.0	.0	.0	2.9
S	.1	.2	2.2	1.8	.5	.1	.0	.0	.0	.0	.0	4.9
SSW	.2	.6	1.7	3.1	1.3	.1	.0	.0	.0	.0	.0	7.0
SW	.1	.3	2.1	3.1	1.2	.3	.0	.0	.0	.0	.0	7.1
WSW	.2	.5	1.8	3.0	.6	.2	.1	.0	.0	.0	.0	6.4
W	.2	1.4	2.3	2.2	.8	.3	.0	.0	.0	.0	.0	7.3
WNW	.0	.3	2.1	2.8	.5	.2	.0	.0	.0	.0	.0	5.8
NW	.1	.4	1.4	1.3	.4	.0	.0	.0	.0	.0	.0	3.6
NNW	.2	.3	.5	.7	.1	.0	.0	.0	.0	.0	.0	1.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
ALL	4.8	16.8	36.1	31.1	8.3	1.7	.2	.0	.0	.0	.0	100.0

TOTAL NO. OF OBS : 1259

NOTES :  
 \* = PERCENT < .05



# 1 - SURFACE WINDS

013750 : NORFOLK, VA  
 PERIOD OF RECORD : 1945-1986  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
 MONTH : APR  
 HOUR : 1900 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

DIR.	SPEED (KNOTS)										TOTAL %	MEAN WIND SPEED
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55		
N	.3	.5	.6	1.7	.2	.2	.0	.0	.0	.0	3.5	11.2
NNE	.1	.2	1.7	1.3	.6	.2	.0	.0	.0	.0	4.1	12.2
NE	.3	1.7	.8	1.3	.2	.0	.1	.0	.0	.0	4.4	8.9
ENE	1.3	1.9	2.3	1.0	.2	.0	.0	.0	.0	.0	6.6	7.2
E	1.7	3.5	2.3	1.1	.0	.0	.0	.0	.0	.0	8.6	6.3
ESE	1.5	2.9	2.0	.6	.1	.0	.0	.0	.0	.0	7.1	6.0
SE	1.5	3.7	4.0	1.3	.0	.0	.0	.0	.0	.0	10.5	7.0
SSE	.3	2.7	5.0	2.1	.2	.0	.0	.0	.0	.0	10.3	8.6
S	.3	1.9	3.0	3.3	1.0	.1	.0	.0	.0	.0	9.7	10.6
SSW	.4	1.8	3.3	2.4	.6	.0	.0	.0	.0	.0	8.6	9.6
SW	.5	2.1	2.0	1.0	.3	.0	.0	.0	.0	.0	6.0	8.1
WSW	.2	1.2	.6	.6	.2	.0	.0	.0	.0	.0	2.8	8.0
W	.1	.6	1.2	1.3	.7	.2	.0	.0	.0	.0	4.0	12.1
WNW	.2	.5	1.4	1.6	.1	.2	.0	.0	.0	.0	3.9	10.8
NW	.2	.7	.9	1.0	.2	.2	.0	.0	.0	.0	3.3	10.6
NNW	.2	.4	.9	.6	.2	.0	.0	.0	.0	.0	2.3	9.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.4	.0
ALL	9.1	26.3	32.1	22.1	4.9	1.0	.1	.0	.0	.0	100.0	8.4

TOTAL NO. OF OBS : 1260

NOTES : \* = PERCENT < .05



# 1 - SURFACE WINDS

013750 : NORFOLK, VA  
PERIOD OF RECORD : 1945-1986  
CLASS : ALL WEATHER  
CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : APR  
HOUR : 2200 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

DIR.	SPEED (KNOTS)																TOTAL	MEAN WIND SPEED
	16-21	21-26	26-31	31-36	36-41	41-46	46-51	51-56	56-61	61-66	66-71	71-76	76-81	81-86	86-91	91-96		
N	.2	.7	1.1	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.4	11.4
NNE	.1	.6	.9	1.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.6	12.6
NE	.5	.3	1.1	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.3	9.5
ENE	.6	.9	1.6	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.5	7.1
E	1.2	1.7	2.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.5	6.5
ESE	1.2	1.3	.7	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.5	5.4
SE	1.8	2.6	1.3	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.3	5.8
SSE	2.1	4.4	3.2	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11.2	6.5
S	1.0	4.3	6.1	4.5	.6	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	16.7	9.1
SSW	.6	2.0	3.4	5.2	1.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12.3	10.7
SW	.2	1.1	1.8	1.5	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.0	9.4
WSW	.4	.8	1.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.0	8.8
W	.3	.6	1.7	1.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.0	10.1
WNW	.1	.3	.6	.7	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9	10.6
NW	.1	.6	1.7	1.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.1	9.9
NNW	.3	.4	1.4	1.4	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.9	10.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.6	.0
ALL	10.8	22.8	29.6	23.7	4.4	1.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	8.2

TOTAL NO. OF OBS : 1260

NOTES : \* = PERCENT < .05



# 1 - SURFACE WINDS

013750 : NORFOLK, VA  
 PERIOD OF RECORD : 1945-1986  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
 MONTH : APR  
 HOUR : ALL

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

16 PT.	1	- 3	4	- 6	7-10	11-16	17-21	SPEED (KNOTS)					34-40	41-47	48-55	>56	TOTAL	MEAN
DIR.																%	WIND	
N	.5		1.0		1.4	1.9	.8	.1	.0*							.0	5.8	10.6
NNE	.3		1.1		2.1	2.2	.7	.3	.1							.0	6.7	11.1
NE	.4		1.4		1.8	1.4	.3	.1	.0*							.0	5.4	9.2
ENE	.6		1.6		2.5	1.2	.2	.0*	.0							.0	6.1	8.3
E	.8		2.0		2.3	.7	.1	.0*	.0							.0	6.0	7.1
ESE	.6		1.0		1.0	.3	.0*	.0	.0							.0	3.0	6.6
SE	.8		1.3		1.4	.6	.1	.0	.0							.0	4.2	7.2
SSE	.8		1.8		1.8	.9	.1	.0*	.0*							.0	5.5	7.4
S	.7		1.9		3.1	2.3	.5	.1	.0							.0	8.6	9.2
SSW	.5		1.9		3.9	4.4	.8	.1	.0*							.0	11.6	10.5
SW	.5		1.5		2.5	2.3	.5	.1	.0*							.0	7.4	10.0
WSW	.4		1.2		1.9	1.7	.4	.1	.0*							.0	5.7	9.9
W	.4		1.5		2.2	2.0	.4	.1	.0							.0	6.7	9.8
WNW	.2		.6		1.5	1.6	.2	.1	.0							.0	4.2	10.6
NW	.2		.8		1.7	1.2	.2	.0*	.0							.0	4.2	9.6
NNW	.3		.6		1.6	1.5	.3	.0*	.0							.0	4.4	10.2
VAR	.0		.0		.0	.0	.0	.0	.0							.0	.0	.0
CLM	.0		.0		.0	.0	.0	.0	.0							.0	4.8	.0
ALL	8.1	21.3			32.7	26.1	5.7	1.3	.2							.0	100.0	8.9

TOTAL NO. OF OBS : 10079

NOTES :  
 \* = PERCENT < .05



## 2 - CEILING VS VISIBILITY

013750 : NORFOLK, VA  
PERIOD OF RECORD : 1945-1986  
CLASS : ALL WEATHER  
CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : APR  
HOUR : 0100 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

## VISIBILITY (STATUTE MILES)

CEILING	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=2	>=1	1/2	>=1	1/4	>=1	>=3/4	>=5/8	>=1/2	>=5/16	>=1/4	>=0
UNLIMIT	12.3	56.5	58.0	58.7	59.3	59.4	59.4	59.4	59.5	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.7	59.7	59.7
>=20000	12.4	59.4	61.0	61.7	62.3	62.4	62.5	62.5	62.6	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.8	62.8
>=18000	12.6	59.7	61.3	62.0	62.7	62.7	62.8	62.8	62.9	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.1	63.1	63.1
>=16000	12.6	59.7	61.3	62.0	62.7	62.7	62.8	62.8	62.9	63.0	63.0	63.0	63.0	63.0	63.0	63.0	63.1	63.1	63.1
>=14000	12.6	60.1	61.7	62.4	63.1	63.1	63.2	63.2	63.3	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.5	63.6	63.6
>=12000	12.7	61.4	63.1	63.9	64.5	64.6	64.7	64.7	64.8	64.9	64.9	64.9	64.9	64.9	64.9	64.9	65.0	65.0	65.0
>=10000	13.1	66.2	68.1	68.9	69.6	69.6	69.8	69.8	69.9	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.1	70.1	70.1
>= 9000	13.1	66.8	68.8	69.6	70.2	70.3	70.5	70.5	70.5	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.7	70.8	70.8
>= 8000	13.5	69.6	71.8	72.7	73.4	73.5	73.7	73.7	73.8	73.9	73.9	73.9	73.9	73.9	73.9	73.9	74.0	74.0	74.0
>= 7000	13.6	70.9	73.2	74.1	74.8	74.9	75.1	75.1	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.3	75.4	75.4	75.4
>= 6000	13.9	72.6	75.0	76.0	76.6	76.8	76.9	76.9	77.0	77.1	77.1	77.1	77.1	77.1	77.1	77.2	77.3	77.3	77.3
>= 5000	14.0	73.6	76.1	77.1	77.8	77.9	78.1	78.1	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.3	78.4	78.4	78.4
>= 4500	14.1	74.2	76.7	77.7	78.4	78.6	78.7	78.7	78.8	78.9	78.9	78.9	78.9	78.9	78.9	79.0	79.1	79.1	79.1
>= 4000	14.2	76.2	78.8	79.8	80.6	80.8	80.9	80.9	81.0	81.1	81.1	81.1	81.1	81.1	81.1	81.2	81.3	81.3	81.3
>= 3500	14.3	77.2	79.9	80.8	81.7	81.8	82.0	82.0	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.2	82.3	82.3	82.3
>= 3000	14.4	78.7	81.4	82.5	83.3	83.4	83.6	83.7	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.9	84.0	84.0	84.0
>= 2500	14.4	79.5	82.2	83.3	84.1	84.3	84.5	84.7	84.7	84.8	84.8	84.8	84.8	84.8	84.8	84.9	85.0	85.0	85.0
>= 2000	14.4	81.0	84.1	85.2	86.1	86.3	86.5	86.8	86.9	86.9	86.9	86.9	86.9	86.9	86.9	87.0	87.1	87.1	87.1
>= 1800	14.4	81.3	84.4	85.6	86.4	86.6	86.9	87.1	87.2	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.4	87.4	87.4
>= 1500	14.5	82.7	86.0	87.3	88.3	88.5	88.7	89.0	89.0	89.1	89.1	89.1	89.1	89.1	89.1	89.2	89.3	89.3	89.3
>= 1200	14.5	83.2	86.5	88.0	89.0	89.2	89.4	89.7	89.8	89.9	89.9	89.9	89.9	89.9	89.9	90.0	90.0	90.0	90.0
>= 1000	14.5	83.7	87.0	88.6	89.9	90.0	90.3	90.5	90.6	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.8	90.8	90.8
>= 900	14.5	83.9	87.5	89.3	90.5	90.7	90.9	91.2	91.2	91.3	91.3	91.3	91.3	91.3	91.3	91.4	91.5	91.5	91.5
>= 800	14.5	84.3	88.0	89.9	91.2	91.3	91.6	91.8	91.9	92.0	92.0	92.0	92.0	92.0	92.0	92.1	92.2	92.2	92.2
>= 700	14.5	84.7	88.4	90.6	91.9	92.1	92.4	92.6	92.7	92.9	92.9	92.9	92.9	92.9	92.9	92.9	93.0	93.0	93.0
>= 600	14.5	85.2	89.2	91.6	92.9	93.2	93.4	93.7	93.8	93.9	93.9	93.9	93.9	93.9	93.9	94.0	94.1	94.1	94.1
>= 500	14.5	85.4	89.4	92.2	93.7	93.9	94.6	95.0	95.0	95.2	95.2	95.2	95.2	95.2	95.2	95.3	95.4	95.4	95.4
>= 400	14.5	85.6	89.9	92.7	94.7	94.5	95.5	95.9	96.0	96.2	96.2	96.2	96.2	96.2	96.2	96.3	96.3	96.3	96.3
>= 300	14.5	85.7	90.0	93.2	94.7	95.2	96.5	96.9	97.1	97.3	97.3	97.3	97.3	97.3	97.3	97.4	97.5	97.5	97.5
>= 200	14.5	85.8	90.1	93.3	95.0	95.5	96.8	97.3	97.5	98.0	98.1	98.1	98.1	98.1	98.1	98.5	98.7	98.7	98.7
>= 100	14.5	85.8	90.1	93.3	95.0	95.5	96.8	97.3	97.5	98.1	98.2	98.2	98.2	98.2	98.3	98.9	99.0	99.3	99.3
>= 0	14.5	85.8	90.1	93.3	95.0	95.5	96.8	97.3	97.5	98.2	98.3	98.5	98.5	98.5	99.1	99.2	99.4	99.4	100.0

TOTAL NO. OF OBS : 1232



## 2 - CEILING VS VISIBILITY

D13750 : NORFOLK, VA  
PERIOD OF RECORD : 1945-1986  
CLASS : ALL WEATHER  
CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : APR  
HOUR : 0000 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

## VISIBILITY (STATUTE MILES)

CEILING	>=10	>=6	>=5	>=4	>=3	>=2 1/2	>=2	>=1 1/2	>=1 1/4	>=1	>=3/4	>=5/8	>=1/2	>=5/16	>=1/4	>=0
UNLIMIT	10.5	56.7	58.6	59.3	59.6	59.8	60.0	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1
>=20000	10.7	59.6	61.5	62.3	62.6	62.8	63.0	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2
>=18000	10.7	59.7	61.6	62.4	62.8	63.0	63.2	63.3	63.3	63.4	63.4	63.4	63.4	63.4	63.4	63.4
>=16000	10.7	59.8	61.7	62.5	62.8	63.1	63.2	63.4	63.4	63.5	63.5	63.5	63.5	63.5	63.5	63.5
>=14000	10.8	60.2	62.1	62.9	63.2	63.5	63.6	63.8	63.8	63.9	63.9	63.9	63.9	63.9	63.9	63.9
>=12000	10.8	61.6	63.6	64.4	64.7	64.9	65.1	65.2	65.2	65.3	65.3	65.3	65.3	65.3	65.3	65.3
>=10000	11.4	65.4	67.7	68.5	68.8	69.0	69.2	69.3	69.3	69.4	69.4	69.4	69.4	69.4	69.4	69.4
>= 9000	11.4	66.1	68.5	69.3	69.6	69.8	70.0	70.1	70.1	70.2	70.2	70.2	70.2	70.2	70.2	70.2
>= 8000	11.8	69.4	72.0	72.9	73.2	73.4	73.7	73.8	73.8	73.9	73.9	73.9	73.9	73.9	73.9	73.9
>= 7000	12.0	70.9	73.6	74.6	74.9	75.1	75.4	75.6	75.6	75.7	75.7	75.7	75.7	75.7	75.7	75.7
>= 6000	12.0	71.7	74.6	75.6	75.9	76.2	76.4	76.6	76.6	76.7	76.7	76.7	76.7	76.7	76.7	76.7
>= 5000	12.3	73.0	76.3	77.4	77.7	77.9	78.2	78.4	78.4	78.5	78.5	78.5	78.5	78.5	78.5	78.5
>= 4500	12.3	73.6	77.0	78.0	78.3	78.6	78.8	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1
>= 4000	12.5	74.9	78.4	79.5	79.8	80.0	80.3	80.6	80.6	80.7	80.7	80.7	80.7	80.7	80.7	80.7
>= 3500	12.6	75.4	79.1	80.1	80.4	80.7	80.9	81.2	81.2	81.3	81.3	81.3	81.3	81.3	81.3	81.3
>= 3000	12.7	76.8	80.5	81.5	81.9	82.1	82.3	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7
>= 2500	12.8	78.2	81.9	83.0	83.3	83.5	83.8	84.1	84.1	84.2	84.2	84.2	84.2	84.2	84.2	84.2
>= 2000	12.8	79.5	83.6	84.8	85.2	85.5	85.8	86.1	86.1	86.2	86.2	86.2	86.2	86.2	86.2	86.2
>= 1800	12.8	80.0	84.1	85.2	85.7	86.0	86.3	86.6	86.6	86.7	86.7	86.7	86.7	86.7	86.7	86.7
>= 1500	12.9	80.7	85.0	86.3	86.8	87.2	87.5	87.9	87.9	88.0	88.0	88.0	88.0	88.0	88.0	88.0
>= 1200	12.9	81.4	85.6	87.1	87.9	88.2	88.5	88.9	88.9	89.0	89.0	89.0	89.0	89.0	89.0	89.0
>= 1000	12.9	82.1	86.6	88.2	89.0	89.3	89.7	90.1	90.1	90.2	90.2	90.2	90.2	90.2	90.2	90.2
>= 900	12.9	82.6	87.2	88.8	89.6	89.9	90.3	90.7	90.7	90.8	90.8	90.8	90.8	90.8	90.8	90.8
>= 800	12.9	82.9	87.6	89.4	90.3	90.6	91.2	91.6	91.6	91.7	91.7	91.7	91.7	91.7	91.7	91.7
>= 700	12.9	87.4	88.8	90.6	91.6	91.9	92.5	92.9	92.9	93.0	93.0	93.0	93.0	93.0	93.0	93.0
>= 600	12.9	83.9	89.3	91.2	92.1	92.5	93.2	93.6	93.6	93.7	93.7	93.7	93.7	93.7	93.7	93.7
>= 500	12.9	83.9	89.6	91.8	93.3	93.8	94.8	95.2	95.2	95.3	95.3	95.3	95.3	95.3	95.3	95.3
>= 400	12.9	84.1	89.9	92.3	93.9	94.5	95.6	96.1	96.1	96.2	96.2	96.2	96.2	96.2	96.2	96.2
>= 300	12.9	84.2	90.0	92.5	94.1	94.9	96.1	97.0	97.0	97.1	97.1	97.1	97.1	97.1	97.1	97.1
>= 200	12.9	84.2	90.0	92.5	94.2	94.9	96.4	97.3	97.3	97.5	98.0	98.1	98.1	98.3	98.3	98.4
>= 100	12.9	84.2	90.0	92.5	94.2	95.0	96.5	97.4	97.4	97.8	98.3	98.4	98.6	99.0	99.3	99.3
>= 0	12.9	84.2	90.0	92.5	94.2	95.0	96.5	97.4	97.4	97.8	98.3	98.4	98.6	99.3	100.0	100.0

TOTAL NO. OF OBS : 1246



## 2 - CEILING VS VISIBILITY

013750 : NORFOLK, VA  
PERIOD OF RECORD : 1945-1986  
CLASS : ALL WEATHER  
CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : APR  
HOUR : 0700 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)									
	>=10	>=6	>=5	>=4	>=3	>=2 1/2	>=2	>=1 1/2	>=1 1/4	>=1
UNLIMIT	6.2	43.2	48.0	50.4	52.1	52.3	52.5	52.6	52.6	52.6
>=20000	6.6	46.6	51.8	54.3	56.3	56.5	56.7	56.8	56.8	56.8
>=18000	6.6	46.8	52.0	54.5	56.4	56.7	56.8	57.0	57.0	57.0
>=16000	6.6	47.0	52.2	54.7	56.7	56.9	57.1	57.2	57.2	57.2
>=14000	6.6	47.4	52.6	55.2	57.2	57.4	57.6	57.8	57.8	57.8
>=12000	7.0	48.8	54.3	57.0	59.1	59.4	59.5	59.8	59.8	59.8
>=10000	7.6	52.9	58.8	61.9	64.1	64.5	64.6	64.9	64.9	64.9
>= 9000	7.7	53.5	59.4	62.6	64.8	65.1	65.3	65.5	65.5	65.5
>= 8000	7.7	58.7	65.1	68.5	71.2	71.5	71.7	71.9	72.0	72.0
>= 7000	7.8	59.8	66.6	70.0	72.6	73.1	73.3	73.5	73.6	73.6
>= 6000	8.0	60.6	67.5	71.1	73.8	74.3	74.5	74.7	74.8	74.8
>= 5000	8.3	62.0	69.1	72.8	75.6	76.1	76.4	76.6	76.7	76.7
>= 4500	8.3	62.4	69.7	73.4	76.2	76.7	76.9	77.2	77.2	77.2
>= 4000	8.5	63.7	71.4	75.1	78.0	78.5	78.9	79.2	79.3	79.4
>= 3500	8.7	64.3	72.0	75.6	78.8	79.4	79.8	80.2	80.2	80.3
>= 3000	8.8	65.6	73.4	77.2	80.5	81.1	81.6	81.9	82.0	82.1
>= 2500	8.8	66.3	74.3	78.0	81.5	82.0	82.6	82.9	83.0	83.1
>= 2000	9.0	67.4	75.4	79.2	82.8	83.4	84.0	84.5	84.5	84.6
>= 1800	9.0	67.6	75.5	79.4	83.1	83.6	84.2	84.7	84.8	84.9
>= 1500	9.1	68.5	76.6	80.6	84.5	85.1	85.7	86.2	86.3	86.4
>= 1200	9.2	69.4	77.7	81.7	85.8	86.4	87.1	87.6	87.7	87.8
>= 1000	9.4	70.4	78.9	82.9	87.0	87.6	88.4	88.9	89.0	89.1
>= 900	9.4	70.8	79.4	83.7	88.0	88.6	89.5	90.0	90.1	90.2
>= 800	9.4	71.4	80.2	84.7	89.0	89.6	90.5	91.1	91.2	91.3
>= 700	9.4	71.5	80.5	84.9	89.5	90.0	91.3	91.9	92.0	92.1
>= 600	9.4	71.5	80.5	85.3	89.9	90.4	91.9	92.6	92.6	92.9
>= 500	9.4	72.1	81.1	86.2	90.9	91.5	93.1	93.9	94.0	94.8
>= 400	9.4	72.2	81.4	86.6	91.7	92.6	94.4	95.4	95.5	96.3
>= 300	9.4	72.3	81.5	86.6	92.0	93.1	95.1	96.3	96.4	97.5
>= 200	9.4	72.3	81.5	86.6	92.0	93.2	95.2	96.4	96.5	98.7
>= 100	9.4	72.3	81.5	86.6	92.0	93.2	95.2	96.4	96.5	99.5
>= 0	9.4	72.3	81.5	86.6	92.0	93.2	95.2	96.4	96.5	100.0

TOTAL NO. OF OBS : 1235



## 2 - CEILING VS VISIBILITY

013750 : NORFOLK, VA  
PERIOD OF RECORD : 1945-1986  
CLASS : ALL WEATHER  
CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : APR  
HOUR : 1000 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)									
	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=1	1/2	>=1/4
UNLIMIT	13.1	50.7	53.2	54.0	54.3	54.4	54.5	54.5	54.5	54.5
>=20000	14.1	56.1	58.8	59.7	60.1	60.3	60.4	60.4	60.4	60.4
>=18000	14.1	56.2	58.8	59.8	60.2	60.4	60.5	60.5	60.5	60.5
>=16000	14.4	56.4	59.2	60.1	60.6	60.7	60.8	60.8	60.8	60.8
>=14000	14.4	56.8	59.6	60.6	61.0	61.2	61.3	61.3	61.3	61.3
>=12000	14.9	58.0	61.0	62.1	62.6	62.7	62.8	62.8	62.8	62.8
>=10000	15.2	60.3	63.8	65.1	65.7	65.8	65.9	65.9	65.9	65.9
>=9000	15.2	60.5	64.0	65.3	65.9	66.1	66.2	66.2	66.2	66.2
>=8000	15.6	64.1	68.2	69.8	70.5	70.6	70.7	70.8	70.8	70.8
>=7000	15.7	65.5	69.8	71.4	72.1	72.2	72.3	72.4	72.4	72.4
>=6000	15.9	66.2	70.5	72.2	73.0	73.1	73.2	73.3	73.3	73.3
>=5000	15.9	67.0	71.3	73.1	73.9	74.2	74.3	74.4	74.4	74.4
>=4500	15.9	67.8	72.2	74.0	74.8	75.1	75.2	75.2	75.2	75.2
>=4000	16.3	69.2	73.9	76.0	76.9	77.3	77.4	77.5	77.5	77.5
>=3500	16.5	70.4	75.1	77.1	78.2	78.6	78.7	78.8	78.8	78.8
>=3000	16.6	73.0	78.1	80.4	81.5	82.0	82.1	82.2	82.2	82.2
>=2500	16.7	74.1	79.4	81.7	82.8	83.3	83.5	83.7	83.7	83.7
>=2000	16.9	75.7	81.3	83.8	85.0	85.6	85.9	86.0	86.0	86.0
>=1800	17.0	75.9	81.4	83.9	85.1	85.7	86.1	86.3	86.3	86.3
>=1500	17.0	77.2	82.9	85.5	86.8	87.6	88.1	88.2	88.2	88.2
>=1200	17.0	78.2	84.3	87.0	88.4	89.3	89.8	89.9	89.9	89.9
>=1000	17.1	78.8	85.1	88.0	89.4	90.4	91.2	91.4	91.4	91.4
>=900	17.1	79.1	85.6	88.6	90.3	91.2	92.0	92.3	92.3	92.3
>=800	17.1	79.2	86.0	89.6	91.5	92.6	93.6	94.0	94.0	94.0
>=700	17.1	79.2	86.2	89.9	92.0	93.2	94.3	94.7	94.7	94.7
>=600	17.1	79.6	86.8	90.7	92.8	94.2	95.5	95.9	95.9	95.9
>=500	17.1	80.0	87.2	91.2	93.5	95.0	96.6	97.2	97.2	97.2
>=400	17.1	80.0	87.2	91.3	93.8	95.4	97.4	98.1	98.3	98.3
>=300	17.1	80.0	87.2	91.3	94.0	95.5	97.8	98.2	98.3	98.3
>=200	17.1	80.0	87.2	91.3	94.1	95.6	98.0	98.5	98.6	98.6
>=100	17.1	80.0	87.2	91.3	94.1	95.6	98.0	98.5	98.6	98.6
>=0	17.1	80.0	87.2	91.3	94.1	95.6	98.0	98.5	98.6	98.6

TOTAL NO. OF OBS : 1232



## 2 - CEILING VS VISIBILITY

013750 : NORFOLK, VA  
PERIOD OF RECORD : 1945-1986  
CLASS : ALL WEATHER  
CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : APR  
HOUR : 1300 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

## VISIBILITY (STATUTE MILES)

CEILING	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=1	1/2	>=1	1/4	>=1	3/4	>=5/8	>=1/2	>=5/16	>=1/4	>=0
UNLIMIT	16.9	52.0	53.2	53.6	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9	53.9
>=20000	18.5	57.2	59.0	59.5	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9
>=18000	18.6	57.6	59.3	59.8	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2
>=16000	18.6	57.7	59.4	59.9	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3
>=14000	18.8	58.0	59.7	60.4	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9
>=12000	19.2	59.5	61.4	62.2	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6
>=10000	19.8	62.2	64.3	65.1	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6
>= 9000	19.9	62.3	64.5	65.4	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9
>= 8000	20.3	65.4	67.6	68.6	69.1	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2
>= 7000	20.5	66.7	69.1	70.0	70.6	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7
>= 6000	20.7	67.5	69.9	70.9	71.5	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6
>= 5000	21.0	69.5	72.1	73.1	73.9	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0	74.0
>= 4500	21.1	70.4	72.9	74.0	74.7	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9
>= 4000	21.9	72.6	75.3	76.6	77.4	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6
>= 3500	22.4	74.7	77.6	79.0	79.8	79.9	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
>= 3000	23.1	78.1	81.1	82.4	83.4	83.5	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6
>= 2500	23.3	80.3	83.6	85.1	86.6	86.8	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0	87.0
>= 2000	23.6	82.0	85.5	87.1	88.8	89.1	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4
>= 1800	23.6	82.3	85.9	87.6	89.2	89.5	89.8	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9
>= 1500	23.8	83.7	87.7	89.5	91.2	91.6	91.8	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
>= 1200	23.8	84.4	88.6	90.7	92.5	93.0	93.2	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4
>= 1000	23.8	84.9	89.4	91.6	93.5	94.0	94.4	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6
>= 900	23.8	85.2	89.7	92.0	94.1	94.6	95.0	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2
>= 800	23.8	85.4	90.1	92.6	95.0	95.5	96.0	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2	96.2
>= 700	23.8	85.7	90.5	93.2	95.6	96.2	96.7	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
>= 600	23.8	85.8	90.6	93.4	95.8	96.6	97.5	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
>= 500	23.8	85.8	90.7	93.5	96.3	97.2	98.1	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
>= 400	23.8	85.8	90.7	93.6	96.4	97.3	98.4	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
>= 300	23.8	85.8	90.7	93.6	96.6	97.6	98.9	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
>= 200	23.8	85.8	90.7	93.6	96.6	97.6	98.9	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
>= 100	23.8	85.8	90.7	93.6	96.6	97.6	98.9	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
>= 0	23.8	85.8	90.7	93.6	96.6	97.6	98.9	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2

TOTAL NO. OF OBS : 1221



## 2 - CLILING VS VISIBILITY

013750 : NORFOLK, VA  
PERIOD OF RECORD : 1945-1986  
CLASS : ALL WEATHER  
CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : APR  
HOUR : 1600 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)															
	>=10	>=6	>=5	>=4	>=3	>=2 1/2	>=2 1/2	>=1 1/2	>=1 1/2	>=1 1/4	>=1	>=3/4	>=5/8	>=1/2	>=5/16	>=1/4
UNLIMIT	16.2	50.0	51.2	51.7	51.8	51.8	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0
>=20000	18.0	56.5	58.0	58.7	58.8	58.8	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0
>=18000	18.0	56.6	58.2	58.9	59.1	59.1	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2
>=16000	18.0	56.7	58.3	59.0	59.1	59.1	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3
>=14000	18.2	57.4	59.1	59.7	59.9	60.0	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1	60.1
>=12000	18.7	59.2	61.0	61.7	61.9	61.9	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1	62.1
>=10000	19.2	61.5	63.6	64.4	64.7	64.8	65.0	65.0	65.0	65.0	65.1	65.1	65.1	65.1	65.1	65.1
>=9000	19.4	62.1	64.2	65.1	65.5	65.6	65.8	65.8	65.8	65.8	65.9	65.9	65.9	65.9	65.9	65.9
>=8000	20.0	65.0	67.4	68.3	68.8	69.0	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2
>=7000	20.0	65.9	68.3	69.2	69.8	70.0	70.1	70.2	70.2	70.3	70.3	70.3	70.3	70.3	70.3	70.3
>=6000	20.3	67.2	69.6	70.5	71.1	71.4	71.5	71.6	71.6	71.7	71.7	71.7	71.7	71.7	71.7	71.7
>=5000	21.0	69.2	72.1	73.1	73.7	73.9	74.1	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2
>=4500	21.1	70.1	73.0	74.0	74.6	74.8	75.0	75.1	75.1	75.2	75.2	75.2	75.2	75.2	75.2	75.2
>=4000	22.1	73.6	76.8	77.9	78.4	78.7	78.8	79.0	79.0	79.1	79.1	79.1	79.1	79.1	79.1	79.1
>=3500	22.5	75.8	79.2	80.3	81.0	81.2	81.4	81.5	81.5	81.6	81.6	81.6	81.6	81.6	81.6	81.6
>=3000	23.1	79.5	83.3	84.6	85.6	85.9	86.1	86.2	86.2	86.3	86.3	86.3	86.3	86.3	86.3	86.3
>=2500	23.3	81.1	85.4	86.8	87.9	88.3	88.4	88.6	88.6	88.7	88.7	88.7	88.7	88.7	88.7	88.7
>=2000	23.5	82.5	87.0	88.4	89.8	90.2	90.5	90.6	90.6	90.7	90.7	90.7	90.7	90.8	90.8	90.8
>=1800	23.5	82.5	87.0	88.4	89.8	90.2	90.5	90.6	90.6	90.7	90.7	90.7	90.7	90.8	90.8	90.8
>=1500	23.5	83.6	88.3	89.7	91.2	91.6	92.0	92.1	92.1	92.2	92.2	92.2	92.2	92.3	92.3	92.3
>=1200	23.5	83.8	88.6	90.3	92.0	92.5	92.9	93.0	93.0	93.1	93.1	93.1	93.1	93.2	93.2	93.2
>=1000	23.5	83.9	89.2	91.1	92.8	93.5	93.8	94.2	94.2	94.3	94.3	94.3	94.3	94.4	94.4	94.4
>=900	23.5	84.1	89.4	91.6	93.4	94.2	94.6	95.1	95.1	95.2	95.2	95.2	95.2	95.3	95.3	95.3
>=800	23.5	84.2	89.5	91.7	93.7	94.6	95.1	95.6	95.6	95.7	95.7	95.7	95.7	95.8	95.8	95.8
>=700	23.5	84.4	89.8	92.2	94.3	95.3	95.9	96.5	96.5	96.6	96.6	96.6	96.6	96.8	96.8	96.8
>=600	23.5	84.7	90.2	92.8	95.0	96.0	96.6	97.2	97.2	97.3	97.4	97.4	97.4	97.5	97.5	97.5
>=500	23.5	84.7	90.3	93.1	95.5	96.6	97.3	97.9	97.9	98.1	98.1	98.1	98.1	98.3	98.3	98.3
>=400	23.5	84.7	90.3	93.3	95.8	96.9	97.8	98.4	98.4	98.6	98.8	98.9	98.9	99.0	99.0	99.0
>=300	23.5	84.7	90.3	93.4	96.0	97.0	98.0	98.7	98.9	99.2	99.3	99.3	99.3	99.5	99.5	99.5
>=200	23.5	84.7	90.3	93.4	96.1	97.2	98.3	98.9	99.1	99.5	99.5	99.7	99.8	99.9	99.9	99.9
>=100	23.5	84.7	90.3	93.4	96.1	97.2	98.3	98.9	99.1	99.5	99.5	99.7	99.8	99.9	100.0	100.0
>=0	23.5	84.7	90.3	93.4	96.1	97.2	98.3	98.9	99.1	99.5	99.5	99.7	99.8	99.9	100.0	100.0

TOTAL NO. OF OBS : 1219



## 2 - CEILING VS VISIBILITY

013750 : NORFOLK, VA  
PERIOD OF RECORD : 1945-1986  
CLASS : ALL WEATHER  
CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : APR  
HOUR : 1900 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)									
	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=1	1/2	>=1/4
UNLIMIT	14.6	51.6	53.5	54.4	54.9	54.9	55.0	55.2	55.2	55.2
>=20000	15.5	56.7	59.0	60.1	60.6	60.9	61.0	61.2	61.2	61.2
>=18000	15.5	57.0	59.2	60.4	60.9	61.1	61.3	61.4	61.4	61.4
>=16000	15.5	57.1	59.3	60.4	60.9	61.2	61.3	61.5	61.5	61.5
>=14000	15.8	58.0	60.3	61.4	61.9	62.2	62.3	62.5	62.5	62.5
>=12000	16.1	59.4	61.8	62.9	63.4	63.7	63.8	64.0	64.0	64.0
>=10000	16.4	62.9	65.5	66.9	67.5	67.8	68.0	68.2	68.2	68.2
>= 9000	16.5	63.2	65.9	67.3	67.9	68.2	68.4	68.6	68.6	68.6
>= 8000	17.1	67.3	69.9	71.5	72.2	72.5	72.7	72.9	72.9	72.9
>= 7000	17.3	68.7	71.5	73.0	73.8	74.0	74.3	74.4	74.4	74.4
>= 6000	17.6	69.7	72.6	74.3	75.0	75.2	75.5	75.7	75.7	75.7
>= 5000	17.9	71.6	74.9	76.6	77.5	77.7	78.0	78.1	78.1	78.1
>= 4500	18.1	72.5	75.9	77.5	78.5	78.7	78.9	79.1	79.1	79.1
>= 4000	18.3	74.9	78.4	80.7	81.7	81.9	82.2	82.3	82.3	82.3
>= 3500	18.4	76.1	79.6	81.9	83.0	83.2	83.5	83.6	83.7	83.7
>= 3000	18.5	78.0	81.9	84.5	85.6	85.9	86.1	86.3	86.3	86.3
>= 2500	18.5	78.9	83.0	85.7	86.9	87.2	87.4	87.6	87.7	87.7
>= 2000	18.8	79.5	83.9	87.2	88.6	88.8	89.1	89.3	89.5	89.5
>= 1800	18.8	79.7	84.0	87.3	88.7	89.0	89.2	89.6	89.7	89.7
>= 1500	18.8	81.2	85.7	89.0	90.5	90.9	91.1	91.4	91.6	91.6
>= 1200	18.8	81.3	86.0	89.4	91.0	91.4	91.6	91.9	92.1	92.1
>= 900	18.8	81.7	86.6	90.2	91.9	92.5	92.9	93.0	93.2	93.2
>= 800	18.8	82.0	87.1	90.9	92.7	93.3	93.8	94.2	94.3	94.3
>= 700	18.8	82.1	87.2	91.0	93.0	93.8	94.2	94.6	94.8	94.8
>= 600	18.8	82.2	87.3	91.1	93.3	94.1	94.6	95.1	95.4	95.4
>= 500	18.8	82.2	87.6	91.5	94.2	95.1	95.6	96.2	96.5	96.5
>= 400	18.8	82.2	87.7	91.8	94.4	95.3	96.1	96.8	97.4	97.5
>= 300	18.8	82.2	87.7	91.8	94.6	95.6	96.5	97.5	98.3	98.4
>= 200	18.8	82.2	87.7	91.9	94.7	95.7	96.9	97.9	98.8	99.1
>= 100	18.8	82.2	87.7	91.9	94.7	95.7	96.9	97.9	98.8	99.1
>= 0	18.8	82.2	87.7	91.9	94.7	95.7	96.9	97.9	98.8	99.1

TOTAL NO. OF OBS : 1216



## 2 - CEILING VS VISIBILITY

013750 : NORFOLK, VA  
 PERIOD OF RECORD : 1945-1986  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
 MONTH : APR  
 HOUR : 2200 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)									
	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=1	>=1/2	>=1/4
UNLIMIT	13.0	57.0	59.0	59.4	59.6	59.7	59.8	59.9	59.9	59.9
>=20000	13.6	60.5	62.7	63.1	63.3	63.5	63.6	63.7	63.7	63.7
>=18000	13.6	60.6	62.7	63.1	63.4	63.5	63.6	63.8	63.8	63.8
>=16000	13.7	60.7	62.9	63.3	63.5	63.7	63.8	64.0	64.0	64.0
>=14000	13.8	61.4	63.5	64.0	64.2	64.4	64.5	64.6	64.6	64.6
>=12000	14.0	62.9	65.1	65.5	65.7	65.9	66.0	66.1	66.1	66.1
>=10000	14.7	67.3	69.7	70.2	70.4	70.6	70.7	70.9	70.9	70.9
>= 9000	14.8	67.7	70.1	70.6	70.9	71.0	71.2	71.4	71.4	71.4
>= 8000	15.1	72.6	75.2	75.9	76.1	76.3	76.5	76.6	76.6	76.6
>= 7000	15.2	73.5	76.1	76.9	77.2	77.3	77.5	77.7	77.7	77.7
>= 6000	15.4	74.8	77.7	78.5	78.8	79.0	79.2	79.3	79.3	79.3
>= 5000	15.7	76.5	79.4	80.3	80.6	80.7	80.9	81.0	81.0	81.0
>= 4500	15.8	77.0	79.9	80.9	81.1	81.3	81.5	81.7	81.7	81.7
>= 4000	16.0	79.1	82.0	83.1	83.4	83.5	83.7	84.0	84.0	84.0
>= 3500	16.0	80.1	83.0	84.0	84.4	84.5	84.7	84.9	84.9	84.9
>= 3000	16.2	81.8	84.9	86.1	86.5	86.7	86.9	87.0	87.1	87.1
>= 2500	16.4	82.6	85.8	87.1	87.6	87.7	87.9	88.1	88.1	88.1
>= 2000	16.4	83.1	86.5	87.9	88.5	88.6	89.0	89.2	89.2	89.2
>= 1800	16.4	83.4	86.8	88.1	88.7	88.9	89.2	89.4	89.4	89.4
>= 1500	16.4	84.2	87.6	89.0	89.8	90.0	90.3	90.6	90.6	90.6
>= 1200	16.4	84.8	88.1	89.5	90.5	90.7	91.0	91.3	91.3	91.3
>= 1000	16.4	85.2	88.6	90.1	91.2	91.5	91.9	92.3	92.3	92.3
>= 900	16.4	85.7	89.1	90.6	91.8	92.1	92.5	92.8	92.8	92.8
>= 800	16.4	85.9	89.3	91.1	92.4	92.7	93.2	93.5	93.5	93.5
>= 700	16.4	86.0	89.8	91.8	93.2	93.5	94.1	94.4	94.4	94.4
>= 600	16.5	86.3	90.2	92.3	94.1	94.6	95.2	95.5	95.5	95.5
>= 500	16.5	86.5	90.6	92.9	95.0	95.6	96.2	96.6	96.6	96.6
>= 400	16.5	86.6	90.9	93.1	95.3	96.0	97.0	97.4	97.4	97.4
>= 300	16.5	86.6	90.9	93.3	95.6	96.6	97.8	98.3	98.5	98.6
>= 200	16.5	86.6	90.9	93.3	95.6	96.8	98.1	98.5	98.7	98.8
>= 100	16.5	86.6	90.9	93.3	95.6	96.8	98.1	98.5	98.7	98.8
>= 0	16.5	86.6	90.9	93.3	95.6	96.8	98.1	98.5	98.8	98.9

TOTAL NO. OF OBS : 1240



## 2 - CEILING VS VISIBILITY

013750 : NORFOLK, VA  
PERIOD OF RECORD : 1945-1986  
CLASS : ALL WEATHER  
CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : APR  
HOUR : ALL

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)									
	>=10	>=6	>=5	>=4	>=3	>=2 1/2	>=2	>=1 1/2	>=1 1/4	>=1
UNLIMIT	12.8	52.2	54.3	55.2	55.7	55.8	55.9	55.9	56.0	56.0
>=20000	13.7	56.6	59.0	59.9	60.5	60.6	60.8	60.8	60.9	60.9
>=18000	13.7	56.8	59.2	60.1	60.7	60.8	61.0	61.0	61.1	61.1
>=16000	13.7	56.9	59.3	60.3	60.8	61.0	61.1	61.2	61.2	61.2
>=14000	13.9	57.4	59.8	60.8	61.4	61.6	61.7	61.8	61.8	61.8
>=12000	14.2	58.9	61.4	62.5	63.1	63.2	63.3	63.4	63.4	63.5
>=10000	14.7	62.3	65.2	66.4	67.1	67.2	67.4	67.5	67.5	67.5
>= 9000	14.7	62.8	65.7	66.9	67.6	67.8	67.9	68.0	68.0	68.1
>= 8000	15.1	66.5	69.7	71.0	71.8	72.0	72.2	72.3	72.3	72.4
>= 7000	15.2	67.7	71.0	72.4	73.2	73.4	73.6	73.7	73.8	73.8
>= 6000	15.4	68.8	72.2	73.7	74.5	74.7	74.9	75.0	75.0	75.1
>= 5000	15.7	70.3	73.9	75.4	76.3	76.6	76.7	76.8	76.9	76.9
>= 4500	15.8	71.0	74.7	76.2	77.1	77.3	77.5	77.6	77.7	77.7
>= 4000	16.2	73.0	76.9	78.6	79.5	79.8	80.0	80.1	80.2	80.2
>= 3500	16.4	74.2	78.2	79.9	80.9	81.2	81.4	81.5	81.6	81.6
>= 3000	16.6	76.4	80.6	82.4	83.5	83.8	84.0	84.2	84.3	84.3
>= 2500	16.7	77.6	81.9	83.8	85.1	85.4	85.6	85.8	85.9	85.9
>= 2000	16.9	78.9	83.4	85.4	86.8	87.2	87.5	87.7	87.8	87.9
>= 1800	16.9	79.1	83.6	85.7	87.1	87.4	87.8	88.0	88.1	88.1
>= 1500	17.0	80.2	85.0	87.1	88.6	89.0	89.4	89.6	89.7	89.8
>= 1200	17.0	80.8	85.7	88.0	89.6	90.1	90.4	90.7	90.8	90.8
>= 1000	17.0	81.3	86.4	88.8	90.6	91.1	91.5	91.8	91.9	92.0
>= 900	17.0	81.6	86.8	89.3	91.2	91.7	92.2	92.6	92.7	92.7
>= 800	17.0	81.9	87.2	90.0	92.0	92.5	93.1	93.4	93.6	93.6
>= 700	17.0	82.1	87.6	90.5	92.6	93.2	93.9	94.3	94.5	94.5
>= 600	17.1	82.4	88.0	91.0	93.2	93.9	94.7	95.1	95.3	95.4
>= 500	17.1	82.6	88.3	91.5	94.0	94.8	95.8	96.2	96.6	96.6
>= 400	17.1	82.7	88.5	91.8	94.4	95.3	96.5	97.0	97.5	97.5
>= 300	17.1	82.7	88.5	92.0	94.7	95.7	97.1	97.7	98.3	98.5
>= 200	17.1	82.7	88.5	92.0	94.8	95.8	97.3	98.0	98.9	99.2
>= 100	17.1	82.7	88.5	92.0	94.8	95.8	97.3	98.1	98.6	99.5
>= 0	17.1	82.7	88.5	92.0	94.8	95.8	97.3	98.0	98.6	99.6

TOTAL NO. OF OBS : 9841



# 1 - SURFACE WINDS

013750 : NORFOLK, VA  
 PERIOD OF RECORD : 1945-1986  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
 MONTH : MAY  
 HOUR : 0100 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

16 PT.	SPEED (KNOTS)																TOTAL	MEAN	
	DIP.	1	- 3	4	- 6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>56	%	WIND		SPEED	
N		.3		.6		1.5	1.2	.4	.0	.1	.0	.0	.0	.0	4.0	10.6			
NNE		.2		.9		1.1	1.3	.4	.2	.1	.0	.0	.0	.0	4.2	11.3			
NE		.2		1.2		1.9	1.2	.5	.0	.0	.0	.0	.0	.0	4.9	9.5			
ENE		.7		1.5		1.2	.5	.1	.0	.0	.0	.0	.0	.0	3.9	6.8			
E		1.4		1.5		1.1	.2	.0	.0	.0	.0	.0	.0	.0	4.2	5.5			
ESE		.7		.6		.3	.0	.1	.0	.0	.0	.0	.0	.0	1.7	5.0			
SE		1.1		1.6		.6	.2	.0	.0	.0	.0	.0	.0	.0	3.5	4.8			
SSE		2.5		2.3		1.6	.7	.0	.0	.0	.0	.0	.0	.0	7.1	5.6			
S		2.2		4.5		5.2	2.4	.2	.1	.0	.0	.0	.0	.0	14.4	7.3			
SSW		1.1		3.2		8.3	5.2	.2	.0	.0	.0	.0	.0	.0	16.0	9.1			
SW		.8		3.1		4.2	1.9	.2	.0	.0	.0	.0	.0	.0	10.2	7.9			
WSW		.9		1.6		1.2	.6	.0	.0	.0	.0	.0	.0	.0	4.3	6.4			
W		.5		.8		1.2	.2	.2	.0	.0	.0	.0	.0	.0	2.8	7.6			
WNW		.2		.7		.7	.2	.0	.0	.0	.0	.0	.0	.0	1.7	7.0			
NW		.2		.7		1.4	.4	.2	.0	.0	.0	.0	.0	.0	2.8	8.3			
NNW		.2		.6		.8	.8	.4	.1	.0	.0	.0	.0	.0	2.8	10.5			
VAR		.0		.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
CLM		.0		.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	9.4	.0			
ALL	13.1	25.3	32.2	16.9	2.5	.4	.2	.0	.0	.0	.0	.0	.0	.0	100.0	7.1			

TOTAL NO. OF OBS : 1302

NOTES : # = PERCENT < .05



# 1 - SURFACE WINDS

013750 : NORFOLK, VA  
 PERIOD OF RECORD : 1945-1986  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
 MONTH : MAY  
 HOUR : 0400 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

DIR.	SPEED (KNOTS)												TOTAL	MEAN WIND SPEED
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>56			
N	.2	1.4	2.1	1.9	.1	.0	.0	.0	.0	.0	.0	.0	5.7	9.6
NNE	.4	.5	1.8	1.8	.5	.2	.0	.0	.0	.0	.0	.0	5.2	11.0
NE	.7	1.2	1.6	1.4	.4	.2	.0	.0	.0	.0	.0	.0	5.5	9.4
ENE	.6	1.2	1.4	.5	.1	.1	.0	.0	.0	.0	.0	.0	3.8	7.5
E	1.1	1.2	.8	.3	.2	.0	.0	.0	.0	.0	.0	.0	3.5	6.4
ESE	.7	.5	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	1.8	5.4
SE	1.3	.8	.4	.1	.1	.0	.0	.0	.0	.0	.0	.0	2.6	4.6
SSE	1.7	1.8	.7	.2	.0	.0	.0	.0	.0	.0	.0	.0	4.5	4.8
S	1.8	3.8	3.5	1.0	.1	.0	.0	.0	.0	.0	.0	.0	10.1	6.7
SSW	.9	3.1	7.1	3.6	.1	.0	.0	.0	.0	.0	.0	.0	14.8	8.6
SW	1.2	2.8	5.1	2.1	.0	.0	.0	.0	.0	.0	.0	.0	11.1	7.7
WSW	.8	2.6	1.8	.3	.0	.0	.1	.0	.0	.0	.0	.0	5.5	6.6
W	.5	2.4	1.7	.7	.1	.0	.0	.0	.0	.0	.0	.0	5.4	7.1
WNW	.4	.6	.8	.4	.1	.0	.0	.0	.0	.0	.0	.0	2.3	7.6
NW	.4	.8	1.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	2.6	7.6
NNW	.3	.9	1.9	1.3	.2	.2	.0	.0	.0	.0	.0	.0	4.8	9.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10.9	.0
ALL	12.9	25.6	32.1	16.1	1.8	.5	.1	.0	.0	.0	.0	.0	100.0	6.9

TOTAL NO. OF OBS : 1302

NOTES : \* = PERCENT < .05



# 1 - SURFACE WINDS

013750 : NORFOLK, VA  
 PERIOD OF RECORD : 1945-1986  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

PERCENTAGE FREQUENCY OF WIND  
 DIRECTION VS SPEED  
 (FROM HOURLY OBSERVATIONS)

16 PT. DIR.	SPEED (KNOTS)										TOTAL Σ	MEAN WIND SPEED
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>=56	
N	.5	.9	2.1	2.8	.5	.1	.0	.0	.0	.0	.0	6.9
NNE	.3	.8	2.2	2.5	.8	.2	.0	.0	.0	.0	.0	6.8
NE	.4	1.3	2.7	1.6	.2	.2	.0	.0	.0	.0	.0	6.3
ENE	.5	1.3	1.7	.9	.1	.1	.0	.0	.0	.0	.0	4.5
E	.8	2.1	1.2	.2	.1	.0	.0	.0	.0	.0	.0	4.4
ESE	.5	.8	.3	.1	.1	.0	.0	.0	.0	.0	.0	1.8
SE	.8	.9	.4	.3	.0	.0	.0	.0	.0	.0	.0	2.4
SSE	.4	1.5	1.1	.5	.0	.0	.0	.0	.0	.0	.0	3.5
S	.6	2.7	2.4	1.4	.1	.0	.0	.0	.0	.0	.0	7.1
SSW	.6	2.4	6.8	3.4	.3	.0	.0	.0	.0	.0	.0	13.5
SW	.9	2.0	5.4	1.8	.3	.0	.0	.0	.0	.0	.0	10.5
WSW	.6	2.5	3.5	1.5	.2	.1	.0	.0	.0	.0	.0	8.5
W	.8	1.6	3.2	1.3	.1	.0	.0	.0	.0	.0	.0	7.9
WNW	.4	.8	1.4	.3	.1	.0	.0	.0	.0	.0	.0	3.0
NW	.3	1.1	1.5	1.0	.0	.0	.0	.0	.0	.0	.0	3.9
NNW	.5	1.3	1.8	.9	.5	.0	.0	.0	.0	.0	.0	5.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
ALL	8.8	24.1	37.6	20.7	3.2	.6	.0	.0	.0	.0	.0	100.0

TOTAL NO. OF OBS : 1301

NOTES :  
 \* = PERCENT < .05



# 1 - SURFACE WINDS

013750 : NORFOLK, VA  
 PERIOD OF RECORD : 1945-1986  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV.: 15 FT  
 MONTH : MAY  
 HOUR : 1000 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

16 PT.	1	3	4	6	7-10	11-16	17-21	SPEED (KNOTS)					TOTAL					MEAN
DIR.	1	3	4	6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>56	Σ	SPEED			
N	1.3	2.5	2.5	2.2	2.5	2.2	.2	.0	.0	.0	.0	.0	.0	8.7	8.0			
NNE	.9	2.6	4.8	3.2	4.8	3.2	.6	.2	.0	.0	.0	.0	.0	12.4	9.4			
NE	.2	2.2	2.8	1.2	2.8	1.2	.5	.2	.0	.0	.0	.0	.0	7.1	9.2			
ENE	.6	1.7	3.9	1.5	3.9	1.5	.2	.0	.0	.0	.0	.0	.0	7.9	8.4			
E	.4	1.8	2.9	.3	2.9	.3	.0	.0	.0	.0	.0	.0	.0	5.4	7.2			
ESE	.1	.4	.6	.2	.6	.2	.0	.0	.0	.0	.0	.0	.0	1.2	7.4			
SE	.1	.5	.9	.3	.9	.3	.0	.0	.0	.0	.0	.0	.0	1.8	8.0			
SSE	.2	.5	.9	.5	.9	.5	.0	.0	.0	.0	.0	.0	.0	2.1	8.4			
S	.6	.6	2.2	1.7	2.2	1.7	.2	.0	.0	.0	.0	.0	.0	5.3	9.2			
SSW	.2	1.4	4.2	4.4	4.2	4.4	.2	.0	.0	.0	.0	.0	.0	10.4	10.1			
SW	.2	.8	3.2	3.5	3.2	3.5	.2	.0	.0	.0	.0	.0	.0	8.0	10.4			
WSW	.7	2.2	4.3	3.0	4.3	3.0	.2	.1	.0	.0	.0	.0	.0	10.4	9.0			
W	.2	2.1	4.0	1.9	4.0	1.9	.2	.0	.0	.0	.0	.0	.0	8.4	8.8			
WNW	.2	1.0	1.8	1.2	1.8	1.2	.0	.0	.0	.0	.0	.0	.0	4.2	8.4			
NW	.2	.4	.5	.5	.5	.5	.2	.0	.0	.0	.0	.0	.0	1.7	9.4			
NNW	.3	.5	1.4	1.5	1.4	1.5	.1	.0	.0	.0	.0	.0	.0	3.8	9.2			
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
CLM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	.0			
ALL	6.4	21.0	41.0	27.2	41.0	27.2	2.8	.4	.0	.0	.0	.0	.0	100.0	8.9			

TOTAL NO. OF OBS : 1302

NOTES :  
 \* = PERCENT < .05



# 1 - SURFACE WINDS

013750 : NORFOLK, VA  
 PERIOD OF RECORD : 1945-1986  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
 MONTH : MAY  
 HOUR : 1300 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

16 PT.	1	2	3	4	5	6	7-10	11-16	17-21	SPEED (KNOTS)										TOTAL	MEAN
DIR.	1	2	3	4	5	6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>56	%	WIND	SPEED			
N							1.6	1.7	.1	.0	.0	.0	.0	.0	.0	5.5	8.5				
NNE	.5	1.7					5.0	3.4	.3	.3	.0	.0	.0	.0	.0	12.3	9.2				
NE	.5	2.8					4.5	1.9	.5	.2	.0	.0	.0	.0	.0	10.1	8.9				
ENE	.3	3.6					6.8	2.9	.2	.1	.0	.0	.0	.0	.0	14.0	8.6				
E	.5	1.7					4.1	1.6	.0	.1	.0	.0	.0	.0	.0	8.0	8.4				
ESE	.2	.4					.7	.4	.0	.0	.0	.0	.0	.0	.0	1.6	8.1				
SE	.0	.2					.8	.6	.0	.0	.0	.0	.0	.0	.0	1.6	9.6				
SSE	.1	.5					1.1	.7	.0	.0	.0	.0	.0	.0	.0	2.4	9.0				
S	.0	.6					1.7	1.5	.1	.0	.0	.0	.0	.0	.0	3.8	10.3				
SSW	.2	.8					2.5	3.7	.5	.2	.0	.0	.0	.0	.0	7.9	11.2				
SW	.2	1.1					2.2	3.1	.6	.2	.0	.0	.0	.0	.0	7.5	11.1				
WSW	.2	1.0					3.5	3.2	.6	.1	.0	.0	.0	.0	.0	8.7	10.6				
W	.3	2.1					3.6	2.4	.4	.0	.0	.0	.0	.0	.0	8.8	9.0				
WNW	.2	.7					1.2	1.3	.3	.0	.0	.0	.0	.0	.0	3.7	10.1				
NW	.2	.4					.7	.8	.1	.0	.0	.0	.0	.0	.0	2.2	9.6				
NNW	.0	.3					1	.5	.1	.0	.0	.0	.0	.0	.0	1.0	10.4				
VAR	.0						.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0				
CLM	.0	.0					.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	.0				
ALL	3.7	20.7					40.1	29.7	3.8	1.1	.0	.0	.0	.0	.0	100.0	9.4				

TOTAL NO. OF OBS : 1302

NOTES : PERCENT < .05



# 1 - SURFACE WINDS

013750 : NORFOLK, VA  
 PERIOD OF RECORD : 1945-1986  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
 MONTH : MAY  
 HOUR : 1600 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

16 PT.	1	3	4	6	7-10	11-16	17-21	SPEED (KNOTS)					TOTAL %					MEAN
DIR.	1	3	4	6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>=56	1	3	4	6	WIND
N	.6	.9			.5	.8	.1	.0	.0	.0	.0	.0	.0	2.9	7.8			7.8
NNE	.5	1.1			2.8	2.3	.5	.1	.1	.0	.0	.0	.0	7.4	10.0			10.0
NE	.4	2.1			3.6	1.8	.5	.2	.0	.0	.0	.0	.0	8.5	9.2			9.2
ENE	1.0	4.5			6.4	2.5	.2	.1	.0	.0	.0	.0	.0	14.6	8.1			8.1
E	1.1	4.2			6.1	1.1	.1	.0	.0	.0	.0	.0	.0	12.5	7.1			7.1
ESE	.3	1.2			2.7	.9	.1	.0	.0	.0	.0	.0	.0	5.1	8.4			8.4
SE	.2	1.1			2.8	1.9	.2	.0	.0	.0	.0	.0	.0	6.1	9.7			9.7
SSE	.2	.4			1.8	2.2	.5	.0	.0	.0	.0	.0	.0	5.0	11.0			11.0
S	.1	.5			2.0	1.3	.2	.1	.0	.0	.0	.0	.0	4.1	10.3			10.3
SSW	.0	.5			2.1	3.6	1.1	.0	.0	.0	.0	.0	.0	7.2	12.3			12.3
SW	.2	.8			2.6	2.8	.7	.0	.0	.0	.0	.0	.0	7.1	10.9			10.9
WSW	.2	1.0			2.8	1.8	.5	.0	.0	.0	.0	.0	.0	6.2	10.2			10.2
W	.3	1.2			2.5	2.0	.2	.1	.0	.0	.0	.0	.0	6.2	9.3			9.3
WNW	.2	.4			1.3	.8	.3	.0	.0	.0	.0	.0	.0	3.1	9.8			9.8
NW	.0	.2			.8	.6	.1	.0	.0	.0	.0	.0	.0	1.7	11.6			11.6
NNW	.2	.2			.5	.5	.1	.0	.0	.0	.0	.0	.0	1.5	9.3			9.3
VAR	.0	.0			.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			.0
CLM	.0	.0			.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	.0			.0
ALL	5.4	20.1			41.0	27.0	5.1	.5	.1	.0	.0	.0	.0	100.0	9.3			9.3

TOTAL NO. OF OBS : 1302

NOTES : \* = PERCENT < .05



# 1 - SURFACE WINDS

013750 : NORFOLK, VA  
 PERIOD OF RECORD : 1945-1986  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
 MONTH : MAY  
 HOUR : 1900 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

16 PT.	1	2	3	4	5	6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>56	TOTAL	MEAN
DIR.	1	2	3	4	5	6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>56	%	WIND SPEED
N	.0	.0	.0	.4	.5	.8	.5	.8	.2	.4	.0	.0	.0	.0	.0	2.0	11.2
NNE	.3	.6	.4	.6	1.4	.8	1.4	.8	.5	.4	.1	.0	.0	.0	.0	4.1	11.5
NE	.2	1.6	.2	1.6	2.0	1.5	2.0	1.5	.2	.2	.0	.0	.0	.0	.0	5.6	9.2
ENE	1.6	2.1	.2	2.1	2.3	1.2	2.3	1.2	.2	.0	.0	.0	.0	.0	.0	7.4	7.2
E	2.6	5.3	.2	5.3	3.8	.5	3.8	.5	.1	.0	.0	.0	.0	.0	.0	12.3	5.7
ESE	1.2	2.5	.2	2.5	1.7	.2	1.7	.2	.0	.0	.0	.0	.0	.0	.0	5.5	5.7
SE	1.5	5.3	.2	5.3	4.3	1.4	4.3	1.4	.1	.0	.0	.0	.0	.0	.0	12.5	6.9
SSE	.8	3.2	.2	3.2	5.7	1.7	5.7	1.7	.2	.0	.0	.0	.0	.0	.0	11.5	7.9
S	.5	1.8	.2	1.8	4.0	2.3	4.0	2.3	.5	.1	.0	.0	.0	.0	.0	9.1	9.2
SSW	.3	2.8	.2	2.8	5.8	1.7	5.8	1.7	.4	.0	.0	.0	.0	.0	.0	11.0	8.8
SW	.5	1.5	.2	1.5	2.9	.8	2.9	.8	.2	.0	.0	.0	.0	.0	.0	5.8	8.1
WSW	.3	.8	.2	.8	1.0	.4	1.0	.4	.2	.0	.0	.0	.0	.0	.0	2.7	7.4
W	.3	1.1	.2	1.1	.7	.3	.7	.3	.2	.0	.0	.0	.0	.0	.0	2.5	7.7
WNW	.1	.3	.2	.3	.8	.5	.8	.5	.0	.0	.0	.0	.0	.0	.0	1.8	9.1
NW	.2	.4	.2	.4	.8	.4	.8	.4	.1	.2	.0	.0	.0	.0	.0	2.0	10.0
NNW	.0	.3	.2	.3	.6	.2	.6	.2	.1	.0	.0	.0	.0	.0	.0	1.2	9.3
VAR	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.0	.0
ALL	10.2	30.0	38.4	14.7	2.8	.8	.1	.0	.0	.0	.0	.0	.0	.0	.0	100.0	7.7

TOTAL NO. OF OBS : 1301

NOTES : \* = PERCENT < .05



# 1 - SURFACE WINDS

013750 : NORFOLK, VA  
 PERIOD OF RECORD : 1945-1986  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
 MONTH : MAY  
 HOUR : 2200 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

16 PT. DIR.	1	2	3	4	5	6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>56	TOTAL Σ	MEAN WIND SPEED
N	.2	.5	1.0	.9	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.2	11.0
NNE	.1	.5	1.1	.8	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.9	11.2
NE	.5	1.0	1.4	.8	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.3	9.4
ENE	.8	1.4	1.5	.7	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.6	7.4
E	1.0	3.1	1.8	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.0	5.9
ESE	1.3	1.9	1.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.3	5.0
SE	2.8	2.9	1.1	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.2	4.9
SSE	2.8	6.5	3.7	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13.5	5.6
S	1.8	4.6	7.3	4.8	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	19.1	8.5
SSW	.5	2.7	4.2	4.8	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12.9	9.7
SW	.5	1.6	2.0	1.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.4	8.2
WSW	.3	1.2	1.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.8	6.9
W	.2	.5	1.0	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.3	9.1
WNW	.1	.2	.8	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	9.9
NW	.1	.9	.2	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	8.6
MNW	.0	.5	.8	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.8	9.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.5	.0
ALL	13.1	30.0	29.8	17.0	3.1	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	100.0	7.3

TOTAL NO. OF OBS : 1301

NOTES :  
 \* = PERCENT < .05



# 1 - SURFACE WINDS

013750 : NORFOLK, VA  
 PERIOD OF RECORD : 1945-1986  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
 MONTH : MAY  
 HOUR : ALL

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

16 PT. DIR.	SPEED (KNOTS)										TOTAL %	MEAN WIND SPEED
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>=56	
N	.5	1.1	1.5	1.6	.3	.0*	.0*	.0	.0	.0	.0	9.4
NNE	.4	1.2	2.5	2.0	.5	.2	.0*	.0	.0	.0	.0	10.2
NE	.4	1.7	2.6	1.4	.4	.1	.0	.0	.0	.0	.0	9.2
ENE	.8	2.1	3.1	1.3	.1	.0*	.0	.0	.0	.0	.0	8.0
E	1.1	2.6	2.7	.5	.0*	.0*	.0	.0	.0	.0	.0	6.6
ESE	.6	1.0	1.0	.2	.0*	.0	.0	.0	.0	.0	.0	6.4
SE	1.0	1.7	1.4	.6	.0*	.0	.0	.0	.0	.0	.0	6.7
SSE	1.1	2.1	2.1	.9	.1	.0	.0	.0	.0	.0	.0	6.9
S	.9	2.4	3.5	2.0	.2	.0*	.0	.0	.0	.0	.0	8.3
SSW	.5	2.1	5.1	3.8	.4	.0*	.0	.0	.0	.0	.0	9.6
SW	.5	1.7	3.5	2.2	.3	.0*	.0	.0	.0	.0	.0	9.0
WSW	.5	1.6	2.4	1.4	.2	.0*	.0*	.0	.0	.0	.0	8.6
W	.4	1.5	2.2	1.2	.2	.0*	.0	.0	.0	.0	.0	8.5
WNW	.2	.6	1.1	.6	.1	.0	.0	.0	.0	.0	.0	8.7
NW	.2	.6	.9	.5	.1	.0*	.0	.0	.0	.0	.0	9.0
NNW	.2	.6	1.0	.8	.2	.0*	.0	.0	.0	.0	.0	9.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
ALL	9.2	24.6	36.5	21.2	3.1	.6	.1	.0	.0	.0	.0	8.1

TOTAL NO. OF OBS : 10413

NOTES :  
 \* = PERCENT < .05



## 2 - CEILING VS VISIBILITY

013750 : NORFOLK, VA  
PERIOD OF RECORD : 1945-1986  
CLASS : ALL WEATHER  
CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : MAY  
HOUR : 0100 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)									
	>=10	>=6	>=5	>=4	>=3	>=2 1/2	>=2	>=1 1/2	>=1 1/4	>=1
UNLIMIT	8.3	51.9	54.6	56.2	56.6	56.6	56.8	56.8	56.9	56.9
>=20000	8.4	55.4	58.4	60.2	60.6	60.6	60.8	60.8	60.9	60.9
>=18000	8.5	55.5	58.5	60.3	60.7	60.7	60.8	60.9	60.9	61.0
>=16000	8.5	55.5	58.5	60.3	60.7	60.7	60.8	60.9	60.9	61.0
>=14000	8.5	55.8	59.0	60.7	61.1	61.1	61.3	61.4	61.4	61.5
>=12000	8.8	57.1	60.2	62.0	62.4	62.4	62.5	62.6	62.7	62.8
>=10000	9.3	62.0	65.4	67.2	67.6	67.6	67.8	67.8	67.9	68.0
>= 9000	9.3	62.6	66.0	67.8	68.2	68.2	68.4	68.5	68.5	68.6
>= 8000	9.5	66.3	69.9	71.7	72.0	72.1	72.3	72.4	72.5	72.6
>= 7000	9.5	67.4	71.1	73.0	73.4	73.4	73.6	73.7	73.8	73.9
>= 6000	9.7	68.2	72.1	74.1	74.5	74.6	74.8	74.8	74.9	75.0
>= 5000	9.8	69.2	73.1	75.4	75.9	75.9	76.2	76.2	76.3	76.4
>= 4500	9.8	69.7	73.6	75.9	76.3	76.4	76.6	76.7	76.8	76.9
>= 4000	9.8	71.9	76.0	78.4	78.9	79.0	79.2	79.3	79.4	79.5
>= 3500	9.8	72.4	76.6	79.0	79.4	79.5	79.8	79.8	79.9	80.0
>= 3000	9.8	74.2	78.7	81.1	81.5	81.6	81.9	82.0	82.1	82.2
>= 2500	9.8	75.0	79.8	82.3	82.9	83.0	83.3	83.4	83.5	83.6
>= 2000	9.9	76.2	81.2	83.8	84.4	84.6	84.9	85.0	85.0	85.1
>= 1800	9.9	76.5	81.5	84.0	84.7	84.8	85.1	85.2	85.3	85.4
>= 1500	9.9	77.4	82.6	85.1	86.0	86.1	86.4	86.5	86.6	86.7
>= 1200	9.9	78.4	83.6	86.3	87.2	87.4	87.8	87.9	88.0	88.1
>= 1000	9.9	79.3	84.7	87.7	88.7	88.9	89.3	89.4	89.6	89.7
>= 900	9.9	79.8	85.5	88.5	89.5	89.6	90.1	90.2	90.3	90.4
>= 800	9.9	80.6	86.5	89.6	90.8	91.0	91.6	91.7	91.8	91.9
>= 700	10.0	80.8	86.9	90.1	91.5	91.8	92.4	92.5	92.7	92.8
>= 600	10.0	81.2	87.4	90.9	92.4	92.8	93.5	93.5	93.7	93.8
>= 500	10.0	81.7	87.9	91.8	93.4	93.7	94.4	94.5	94.7	94.8
>= 400	10.0	81.9	88.2	92.5	94.3	94.6	95.5	95.8	96.0	96.1
>= 300	10.0	81.9	88.3	92.8	94.5	95.1	96.1	96.8	97.0	97.1
>= 200	10.0	81.9	88.4	92.8	94.6	95.2	96.3	97.2	97.6	97.9
>= 100	10.0	81.9	88.4	92.8	94.7	95.2	96.4	97.4	97.9	98.3
>= 0	10.0	81.9	88.4	92.8	94.7	95.2	96.4	97.4	97.9	98.4

TOTAL NO. OF OBS : 1284



## 2 - CEILING VS VISIBILITY

013750 : NORFOLK, VA  
PERIOD OF RECORD : 1945-1986  
CLASS : ALL WEATHER  
CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : MAY  
HOUR : 0400 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)															
	>=10	>=6	>=5	>=4	>=3	>=2 1/2	>=2 1/2	>=1 1/2	>=1 1/2	>=1	>=3/4	>=5/8	>=1/2	>=5/16	>=1/4	>=0
UNLIMIT	7.0	48.8	52.2	53.9	54.9	55.1	55.3	55.3	55.3	55.4	55.4	55.4	55.4	55.4	55.4	55.4
>=20000	7.3	52.1	55.6	57.4	58.4	58.7	59.0	59.0	59.0	59.0	59.1	59.1	59.1	59.1	59.1	59.1
>=18000	7.3	52.1	55.6	57.4	58.4	58.7	59.0	59.0	59.0	59.0	59.1	59.1	59.1	59.1	59.1	59.1
>=16000	7.3	52.2	55.7	57.5	58.5	58.8	59.0	59.0	59.0	59.1	59.2	59.2	59.2	59.2	59.2	59.2
>=14000	7.3	52.4	55.9	57.8	58.8	59.1	59.4	59.4	59.4	59.4	59.5	59.5	59.5	59.5	59.5	59.5
>=12000	7.7	54.0	57.6	59.4	60.5	60.8	61.1	61.1	61.1	61.2	61.2	61.2	61.2	61.2	61.2	61.2
>=10000	7.9	57.6	61.5	63.4	64.4	64.8	65.0	65.0	65.0	65.1	65.2	65.2	65.2	65.2	65.2	65.2
>=9000	8.0	58.0	61.9	63.7	64.8	65.2	65.4	65.4	65.4	65.5	65.5	65.5	65.5	65.5	65.5	65.5
>=8000	8.2	62.2	66.3	68.2	69.4	69.7	70.0	70.0	70.0	70.1	70.2	70.2	70.2	70.2	70.2	70.2
>=7000	8.5	63.3	67.5	69.4	70.7	71.0	71.3	71.3	71.3	71.4	71.5	71.5	71.5	71.5	71.5	71.5
>=6000	8.5	64.0	68.2	70.1	71.5	71.8	72.1	72.1	72.1	72.2	72.3	72.3	72.3	72.3	72.3	72.3
>=5000	8.6	65.0	69.3	71.2	72.7	73.0	73.3	73.3	73.3	73.4	73.5	73.5	73.5	73.5	73.5	73.5
>=4500	8.6	65.8	70.1	72.0	73.5	73.8	74.1	74.1	74.1	74.2	74.2	74.2	74.2	74.2	74.2	74.2
>=4000	8.7	67.7	72.5	74.5	76.0	76.4	76.7	76.7	76.7	76.7	76.8	76.8	76.8	76.8	76.8	76.8
>=3500	8.7	68.4	73.2	75.2	76.8	77.1	77.5	77.5	77.5	77.6	77.7	77.7	77.7	77.7	77.7	77.7
>=3000	8.7	70.0	75.0	77.1	78.9	79.2	79.6	79.6	79.6	79.6	79.7	79.7	79.7	79.7	79.7	79.7
>=2500	8.8	70.6	75.8	77.9	79.6	80.0	80.3	80.3	80.3	80.4	80.5	80.5	80.5	80.5	80.5	80.5
>=2000	8.8	72.0	77.8	80.3	82.7	82.3	82.7	82.7	82.7	82.8	82.9	82.9	82.9	82.9	82.9	82.9
>=1800	8.9	72.5	78.3	80.8	82.6	82.9	83.3	83.3	83.3	83.4	83.5	83.5	83.5	83.5	83.5	83.5
>=1500	9.0	73.3	79.3	81.9	83.9	84.4	84.8	84.8	84.8	84.9	85.0	85.0	85.0	85.0	85.0	85.0
>=1200	9.0	74.2	80.6	83.2	85.4	85.8	86.2	86.2	86.2	86.3	86.4	86.4	86.4	86.4	86.4	86.4
>=1000	9.0	75.3	82.0	84.7	87.1	87.5	87.9	87.9	87.9	88.0	88.1	88.1	88.1	88.1	88.1	88.1
>=900	9.0	75.7	82.4	85.1	87.6	88.2	88.6	88.6	88.6	88.6	88.7	88.7	88.7	88.7	88.7	88.7
>=800	9.0	76.3	83.2	86.1	88.8	89.4	89.8	89.8	89.8	89.9	90.0	90.0	90.0	90.0	90.0	90.0
>=700	9.1	77.2	84.3	87.3	90.1	90.7	91.2	91.2	91.2	91.2	91.3	91.3	91.4	91.4	91.4	91.4
>=600	9.1	77.8	85.0	88.6	91.5	92.2	92.7	92.7	92.7	92.8	92.9	92.9	93.0	93.0	93.0	93.0
>=500	9.1	78.0	85.2	89.1	92.2	93.1	93.7	93.7	93.7	93.7	93.8	93.8	93.9	93.9	93.9	93.9
>=400	9.1	78.2	85.6	89.7	93.0	94.0	94.9	95.1	95.1	95.2	95.3	95.3	95.4	95.4	95.4	95.4
>=300	9.1	78.2	85.7	89.9	93.5	94.6	95.5	95.9	96.0	96.2	96.2	96.2	96.4	96.4	96.4	96.4
>=200	9.1	78.2	85.7	90.1	93.9	95.1	96.2	97.0	97.0	97.3	97.5	97.5	97.9	98.0	98.1	98.1
>=100	9.1	78.2	85.7	90.1	93.9	95.1	96.2	97.0	97.1	97.3	97.7	97.7	98.1	98.3	98.7	99.0
>=0	9.1	78.2	85.7	90.1	93.9	95.1	96.2	97.0	97.1	97.3	97.7	97.7	98.3	98.4	98.9	100.0

TOTAL NO. OF OBS : 1277



# 2 - CEILING VS VISIBILITY

013750 : NORFOLK, VA  
 PERIOD OF RECORD : 1945-1986  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
 MONTH : MAY  
 HOUR : 0700 LST

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

### VISIBILITY (STATUTE MILES)

CEILING	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=2	>=1	1/2	>=1	1/4	>=1	>=3/4	>=5/8	>=1/2	>=5/16	>=1/4	>=0
UNLIMIT	4.7	38.2	44.6	48.2	50.3	50.6	50.9	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.2	51.2	51.2	51.3
>=20000	5.2	41.7	48.6	52.2	54.7	55.1	55.5	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.8	55.8	55.8	55.9
>=18000	5.2	41.8	48.8	52.5	54.9	55.4	55.7	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.1	56.1	56.1	56.1
>=16000	5.2	41.8	48.8	52.5	54.9	55.4	55.7	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.0	56.1	56.1	56.1	56.1
>=14000	5.2	42.4	49.5	53.2	55.6	56.1	56.5	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.8	56.8	56.8	56.8
>=12000	5.6	43.9	51.1	54.9	57.4	57.9	58.2	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.6	58.6	58.6	58.6
>=10000	5.9	47.3	55.1	59.3	61.9	62.5	63.0	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.4
>= 9000	5.9	47.5	55.4	59.6	62.2	62.7	63.3	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.6	63.6	63.6	63.6
>= 8000	6.3	50.8	59.3	64.0	66.8	67.3	67.9	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.2	68.2	68.2	68.3
>= 7000	6.3	51.4	60.0	64.9	67.6	68.2	68.7	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.1
>= 6000	6.4	52.2	60.9	65.8	68.5	69.1	69.7	69.9	69.9	69.9	69.9	69.9	69.9	69.9	69.9	70.0	70.0	70.0	70.1
>= 5000	6.6	54.0	63.1	68.2	71.1	71.8	72.3	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.6	72.7
>= 4500	6.6	54.4	63.6	68.7	71.7	72.4	72.9	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.3	73.3	73.3	73.3
>= 4000	6.6	56.1	65.4	70.5	73.6	74.3	74.8	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.2	75.2	75.2	75.3
>= 3500	6.7	56.6	66.0	71.1	74.1	74.8	75.4	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.9
>= 3000	6.9	57.7	67.3	72.7	75.9	76.6	77.3	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.7	77.7	77.7	77.8
>= 2500	6.9	58.6	68.3	73.9	77.2	78.3	78.7	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.1
>= 2000	6.9	59.0	68.9	74.6	78.1	78.9	79.7	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.1	80.1	80.1	80.2
>= 1800	6.9	59.1	69.0	74.9	78.5	79.3	80.1	80.4	80.4	80.4	80.4	80.4	80.4	80.5	80.5	80.5	80.5	80.5	80.6
>= 1500	7.1	60.3	70.7	76.8	80.4	81.2	82.1	82.4	82.4	82.4	82.4	82.4	82.4	82.5	82.5	82.6	82.6	82.6	82.6
>= 1200	7.2	60.8	71.4	77.7	81.5	82.4	83.3	83.7	83.7	83.7	83.7	83.7	83.7	83.8	83.8	83.9	83.9	83.9	84.0
>= 1000	7.3	62.2	73.1	79.6	83.4	84.4	85.5	85.8	85.9	85.9	85.9	85.9	85.9	86.0	86.0	86.1	86.1	86.1	86.2
>= 900	7.4	62.9	73.8	80.4	84.4	85.3	86.4	86.8	86.9	86.9	86.9	86.9	86.9	86.9	86.9	87.0	87.0	87.0	87.1
>= 800	7.5	64.1	75.1	82.0	86.2	87.2	88.4	88.8	88.9	88.9	88.9	88.9	88.9	89.0	89.0	89.1	89.1	89.1	89.2
>= 700	7.5	64.7	76.3	83.3	87.8	88.9	90.1	90.5	90.6	90.6	90.6	90.6	90.6	90.8	90.8	90.9	90.9	90.9	91.0
>= 600	7.5	65.1	76.6	84.0	88.9	90.0	91.2	91.7	91.9	91.9	91.9	91.9	91.9	92.1	92.1	92.3	92.3	92.3	92.3
>= 500	7.5	65.5	77.3	85.3	90.5	91.9	93.6	94.4	94.6	94.6	94.6	94.6	94.6	94.8	94.8	95.1	95.1	95.1	95.2
>= 400	7.5	65.8	77.6	85.8	91.0	92.9	94.8	95.7	95.9	96.3	96.3	96.3	96.3	96.6	96.6	96.9	96.9	96.9	97.0
>= 300	7.5	65.8	77.6	85.9	91.2	93.4	95.5	96.6	96.8	97.5	97.5	97.5	97.5	97.8	97.8	98.1	98.1	98.1	98.2
>= 200	7.5	65.8	77.6	85.9	91.2	93.4	95.5	96.6	96.8	97.6	97.6	97.6	97.6	98.0	98.1	98.7	98.8	98.9	99.1
>= 100	7.5	65.8	77.6	85.9	91.2	93.5	95.5	96.7	96.9	97.9	97.9	97.9	97.9	98.4	98.4	99.0	99.2	99.3	99.6
>= 0	7.5	65.8	77.6	85.9	91.2	93.5	95.5	96.7	96.9	97.9	97.9	97.9	97.9	98.4	98.4	99.0	99.5	99.5	100.0

TOTAL NO. OF OBS : 1279



## 2 - CEILING VS VISIBILITY

013750 : NORFOLK, VA  
 PERIOD OF RECORD : 1945-1986  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
 MONTH : MAY  
 HOUR : 1000 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

## VISIBILITY (STATUTE MILES)

CEILING	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=2	>=1	1/2	>=1	1/4	>=1	>=3/4	>=5/8	>=1/2	>=5/16	>=1/4	>=0
UNLIMIT	10.7	49.3	52.3	53.8	54.4	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5
>=20000	11.8	53.5	56.9	58.5	59.1	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.3	59.3	59.3	59.3	59.3	59.3	59.3
>=19000	11.9	53.7	57.1	58.7	59.2	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.5	59.5	59.5	59.5	59.5	59.5	59.5
>=16000	11.9	53.7	57.1	58.7	59.2	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.5	59.5	59.5	59.5	59.5	59.5	59.5
>=14000	12.0	54.5	57.8	59.5	60.0	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.3	60.3	60.3	60.3	60.3	60.3	60.3
>=12000	12.1	55.7	59.2	60.9	61.5	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.8	61.8	61.8	61.8	61.8	61.8	61.8
>=10000	12.5	58.9	62.6	64.6	65.3	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.6	65.6	65.6	65.6	65.6	65.6	65.6
>= 9000	12.6	59.2	62.9	64.9	65.6	65.8	65.8	65.8	65.8	65.8	65.8	65.8	65.9	65.9	65.9	65.9	65.9	65.9	65.9
>= 8000	12.9	62.7	67.3	69.6	70.4	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.7	70.7	70.7	70.7	70.7	70.7	70.7
>= 7000	13.0	63.6	68.3	70.5	71.3	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6
>= 6000	13.0	64.0	68.7	71.0	71.9	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.3	72.3	72.3	72.3	72.3	72.3	72.3
>= 5000	13.2	65.0	69.7	72.1	73.1	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4
>= 4500	13.2	65.4	70.1	72.5	73.5	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.8	73.8	73.8	73.8	73.8	73.8	73.8
>= 4000	13.4	67.1	72.4	74.8	75.9	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.2	76.2	76.2	76.2	76.2	76.2	76.2
>= 3500	13.4	67.3	72.7	75.1	76.2	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.5	76.5	76.5	76.5	76.5	76.5	76.5
>= 3000	13.9	69.4	74.8	77.5	78.8	79.0	79.0	79.0	79.0	79.0	79.0	79.0	79.1	79.1	79.1	79.1	79.1	79.1	79.1
>= 2500	14.1	71.0	76.6	79.4	80.6	80.9	80.9	80.9	80.9	80.9	80.9	80.9	81.0	81.0	81.0	81.0	81.0	81.0	81.0
>= 2000	14.3	73.0	78.6	81.6	82.9	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2
>= 1800	14.4	73.4	79.0	82.1	83.5	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.8	83.8	83.8	83.8	83.8	83.8	83.8
>= 1500	14.7	74.7	80.8	84.0	85.7	86.1	86.1	86.1	86.1	86.1	86.1	86.2	86.3	86.3	86.3	86.3	86.3	86.3	86.3
>= 1200	14.8	76.3	82.6	86.3	88.0	88.4	88.4	88.4	88.4	88.4	88.4	88.5	88.6	88.6	88.6	88.6	88.6	88.6	88.6
>= 1000	14.9	78.0	84.8	88.6	90.8	91.1	91.1	91.1	91.1	91.1	91.1	91.3	91.4	91.4	91.4	91.4	91.4	91.4	91.4
>= 900	14.9	78.2	85.5	89.4	91.7	92.1	92.1	92.1	92.1	92.1	92.1	92.4	92.5	92.5	92.5	92.5	92.5	92.5	92.5
>= 800	14.9	78.5	85.9	89.8	92.5	93.0	93.3	93.5	93.5	93.5	93.5	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
>= 700	14.9	79.1	86.8	90.8	93.7	94.7	95.1	95.4	95.4	95.4	95.4	95.4	95.5	95.5	95.5	95.5	95.5	95.5	95.5
>= 600	14.9	79.2	87.0	91.2	94.3	95.5	96.1	96.4	96.4	96.4	96.4	96.4	96.5	96.5	96.5	96.5	96.5	96.5	96.5
>= 500	14.9	79.3	87.3	91.6	94.9	96.2	97.1	97.5	97.5	97.5	97.5	97.5	97.6	97.6	97.6	97.6	97.6	97.6	97.6
>= 400	14.9	79.5	87.5	92.0	95.5	96.9	98.1	98.6	98.6	98.6	98.6	98.6	98.8	98.8	98.8	98.8	98.8	98.8	98.8
>= 300	14.9	79.5	87.7	92.2	95.8	97.2	98.6	99.1	99.1	99.1	99.1	99.1	99.5	99.5	99.5	99.5	99.5	99.5	99.5
>= 200	14.9	79.5	87.7	92.2	95.8	97.2	98.7	99.4	99.4	99.4	99.4	99.4	99.8	99.8	99.8	99.8	99.8	99.8	99.8
>= 100	14.9	79.5	87.7	92.2	95.8	97.2	98.7	99.4	99.4	99.4	99.4	99.4	99.8	99.8	99.8	100.0	100.0	100.0	100.0
>= 0	14.9	79.5	87.7	92.2	95.8	97.2	98.7	99.4	99.4	99.4	99.4	99.4	99.8	99.8	99.8	100.0	100.0	100.0	100.0

TOTAL NO. OF OPS : 1276



## 2 - CEILING VS VISIBILITY

013750 : NORFOLK, VA  
PERIOD OF RECORD : 1945-1986  
CLASS : ALL WEATHER  
CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : MAY  
HOUR : 1300 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)															
	>=10	>=6	>=5	>=4	>=3	>=2 1/2	>=2	>=1 1/2	>=1 1/4	>=1	>=3/4	>=5/8	>=1/2	>=5/16	>=1/4	>=0
UNLIMIT	13.5	47.9	50.4	51.5	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0	52.0
>=20000	14.9	53.5	56.1	57.2	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8	57.8
>=18000	15.0	53.9	56.5	57.7	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3
>=16000	15.0	54.0	56.6	57.8	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3
>=14000	15.3	54.9	57.6	58.7	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3	59.3
>=12000	15.7	56.5	59.2	60.4	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0
>=10000	16.1	59.4	62.4	63.5	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2
>= 9000	16.1	59.7	62.7	63.9	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5
>= 8000	16.2	63.1	66.3	67.8	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6
>= 7000	16.3	63.9	67.1	68.6	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5
>= 6000	16.5	64.7	68.0	69.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4
>= 5000	17.1	66.5	69.8	71.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4
>= 4500	17.2	67.0	70.4	72.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0
>= 4000	18.0	69.0	72.6	74.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3
>= 3500	18.7	70.6	74.4	76.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1
>= 3000	19.3	74.5	78.5	80.5	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4
>= 2500	19.9	76.7	80.9	83.1	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3
>= 2000	20.1	79.9	84.5	86.9	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1
>= 1800	20.2	80.1	84.9	87.3	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6
>= 1500	20.2	81.3	86.1	88.7	90.2	90.4	90.6	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9
>= 1200	20.3	81.7	86.9	89.7	91.4	91.6	91.8	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
>= 1000	20.5	82.5	87.7	90.6	92.4	92.6	93.0	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
>= 900	20.5	82.8	88.3	91.2	93.2	93.5	93.9	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3
>= 800	20.5	83.1	88.7	91.9	94.0	94.4	95.0	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4
>= 700	20.5	83.4	89.2	92.6	94.9	95.4	96.4	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
>= 600	20.5	83.5	89.4	92.8	95.2	95.7	96.9	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5
>= 500	20.5	83.7	89.8	93.5	96.2	96.9	98.3	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
>= 400	20.5	83.7	89.8	93.5	96.2	96.9	98.5	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
>= 300	20.5	83.7	89.8	93.6	96.4	97.1	98.7	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
>= 200	20.5	83.7	89.8	93.6	96.4	97.1	98.7	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
>= 100	20.5	83.7	89.8	93.6	96.4	97.1	98.7	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
>= 0	20.5	83.7	89.8	93.6	96.4	97.1	98.7	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5

TOTAL NO. OF OBS : 1270



## 2 - CEILING VS VISIBILITY

013750 : NORFOLK, VA  
PERIOD OF RECORD : 1945-1986  
CLASS : ALL WEATHER  
CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : MAY  
HOUR : 1600 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

## VISIBILITY (STATUTE MILES)

CEILING	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=1	1/2	>=1	1/4	>=1	3/4	>=5/8	>=1/2	>=5/16	>=1/4	>=0
UNLIMIT	15.5	49.2	50.9	52.1	52.4	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5
>=20000	17.3	55.8	58.0	59.2	59.5	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6
>=18000	17.3	55.9	58.1	59.4	59.6	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8
>=16000	17.3	56.1	58.3	59.6	59.8	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
>=14000	17.5	56.9	59.2	60.4	60.7	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8
>=12000	18.0	58.0	60.3	61.5	61.8	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9
>=10000	18.2	60.9	63.4	64.8	65.0	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2
>= 9000	18.2	61.3	63.8	65.2	65.4	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6
>= 8000	18.6	65.0	68.3	69.8	70.1	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4
>= 7000	18.8	66.0	69.5	71.0	71.4	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6
>= 6000	18.9	66.8	70.3	71.8	72.2	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4
>= 5000	19.4	69.0	72.6	74.2	74.6	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9
>= 4500	19.5	69.4	73.1	74.7	75.2	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4
>= 4000	20.4	72.0	76.1	77.7	78.2	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4
>= 3500	21.0	73.4	77.5	79.1	79.6	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9
>= 3000	21.8	77.1	81.6	83.5	84.1	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4
>= 2500	21.9	78.8	83.3	85.2	86.1	86.3	86.4	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5
>= 2000	22.1	79.9	84.6	86.9	87.9	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2
>= 1800	22.1	80.0	84.8	87.2	88.2	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5
>= 1500	22.3	81.2	86.2	88.8	90.0	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5
>= 1200	22.3	81.9	87.3	90.0	91.4	91.7	92.1	92.2	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
>= 1000	22.3	82.9	88.4	91.2	93.0	93.5	94.1	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
>= 900	22.3	83.1	88.6	91.6	93.5	94.3	94.9	95.0	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1
>= 800	22.3	83.5	89.1	92.1	94.2	94.9	95.7	95.8	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9
>= 700	22.4	83.6	89.6	92.4	94.6	95.5	96.5	96.6	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
>= 600	22.4	83.9	89.8	93.3	95.7	96.8	97.3	97.3	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5
>= 500	22.4	83.9	89.8	93.3	95.7	96.8	97.9	98.0	98.1	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
>= 400	22.4	83.9	89.8	93.4	95.8	97.1	98.3	98.4	98.5	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
>= 300	22.4	84.0	89.9	93.5	95.9	97.2	98.5	98.7	98.7	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
>= 200	22.4	84.0	89.9	93.5	95.9	97.2	98.6	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
>= 100	22.4	84.0	89.9	93.5	95.9	97.2	98.6	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
>= 0	22.4	84.0	89.9	93.5	95.9	97.2	98.6	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8

TOTAL NO. OF OBS : 1266



## 2 - CEILING VS VISIBILITY

013750 : NORFOLK, VA  
PERIOD OF RECORD : 1945-1986  
CLASS : ALL WEATHER  
CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : MAY  
HOUR : 1900 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)									
	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=1	1/2	>=1/4
UNLIMIT	12.0	49.2	52.3	53.2	53.6	53.8	53.8	53.8	53.8	53.8
>=20000	13.0	55.9	59.5	60.7	61.1	61.2	61.2	61.2	61.2	61.2
>=18000	13.0	56.1	59.8	61.0	61.4	61.6	61.6	61.6	61.6	61.6
>=16000	13.1	56.2	59.9	61.1	61.5	61.6	61.6	61.6	61.6	61.6
>=14000	13.1	57.1	60.9	62.1	62.6	62.7	62.7	62.7	62.7	62.7
>=12000	13.6	58.9	62.8	64.0	64.5	64.6	64.6	64.6	64.6	64.6
>=10000	14.4	62.9	67.2	68.6	69.1	69.2	69.2	69.2	69.2	69.2
>= 9000	14.6	63.2	67.5	68.9	69.4	69.5	69.5	69.5	69.5	69.5
>= 8000	15.0	67.6	72.2	74.1	74.6	74.8	74.8	74.8	74.8	74.8
>= 7000	15.0	68.2	73.1	74.9	75.6	75.7	75.8	75.8	75.8	75.8
>= 6000	15.0	69.1	74.1	75.9	76.7	76.8	76.9	76.9	76.9	76.9
>= 5000	15.4	71.0	75.9	78.0	78.8	79.0	79.0	79.0	79.0	79.0
>= 4500	15.4	71.0	76.1	78.2	79.0	79.2	79.2	79.2	79.2	79.2
>= 4000	15.6	72.6	77.9	80.5	81.4	81.6	81.7	81.7	81.7	81.7
>= 3500	15.7	73.5	78.8	81.5	82.4	82.6	82.7	82.7	82.7	82.7
>= 3000	15.7	75.3	81.1	84.1	85.0	85.3	85.4	85.4	85.4	85.4
>= 2500	15.7	75.8	81.8	84.9	85.9	86.2	86.3	86.3	86.3	86.3
>= 2000	15.9	77.1	83.1	86.6	87.7	88.0	88.3	88.3	88.3	88.3
>= 1800	15.9	77.2	83.3	86.8	87.9	88.1	88.4	88.4	88.4	88.4
>= 1500	16.0	78.1	84.5	88.2	89.5	89.7	90.0	90.1	90.1	90.1
>= 1200	16.0	78.6	85.1	88.8	90.2	90.4	90.9	91.0	91.1	91.1
>= 1000	16.0	79.2	85.8	89.6	91.3	91.5	92.2	92.4	92.5	92.5
>= 900	16.0	79.4	86.2	90.0	91.9	92.1	92.8	93.0	93.1	93.1
>= 800	16.0	79.7	86.6	90.5	92.6	92.9	94.0	94.2	94.3	94.3
>= 700	16.1	80.0	86.9	91.1	93.5	94.0	95.2	95.6	95.7	95.7
>= 600	16.1	80.0	87.0	91.3	93.8	94.2	95.5	95.9	96.1	96.1
>= 500	16.1	80.2	87.4	91.8	94.3	94.9	96.4	96.7	97.3	97.3
>= 400	16.1	80.3	87.7	92.0	94.8	95.4	97.0	97.4	98.3	98.3
>= 300	16.1	80.4	87.9	92.2	95.0	95.6	97.4	98.0	99.3	99.3
>= 200	16.1	80.4	87.9	92.2	95.0	95.6	97.5	98.2	99.6	99.7
>= 100	16.1	80.4	87.9	92.2	95.0	95.6	97.5	98.2	99.8	99.9
>= 0	16.1	80.4	87.9	92.2	95.0	95.6	97.5	98.2	99.8	100.0

TOTAL NO. OF OBS : 1264



## 2 - CEILING VS VISIBILITY

013750 : NORFOLK, VA  
PERIOD OF RECORD : 1945-1986  
CLASS : ALL WEATHER  
CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : MAY  
HOUR : 2200 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

## VISIBILITY (STATUTE MILES)

CEILING	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=1	1/4	>=1/2	>=5/8	>=3/4	>=5/16	>=1/4	>=0
UNLIMIT	10.3	54.6	57.3	58.1	58.2	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3
>=20000	10.6	58.1	61.3	62.3	62.4	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5
>=18000	10.6	58.4	61.5	62.5	62.6	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7
>=16000	10.6	58.4	61.5	62.5	62.6	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7	62.7
>=14000	10.6	59.0	62.1	63.2	63.2	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3
>=12000	11.0	60.3	63.6	64.6	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7
>=10000	11.5	65.1	68.6	69.6	69.7	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8
>= 9000	11.6	65.5	69.1	70.2	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3
>= 8000	12.1	69.7	73.3	74.5	74.6	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7
>= 7000	12.1	70.3	73.9	75.1	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2	75.2
>= 6000	12.5	71.8	75.4	76.6	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7
>= 5000	12.6	73.3	77.1	78.4	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5
>= 4500	12.6	73.8	77.7	78.9	79.1	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2
>= 4000	12.8	75.6	79.8	81.2	81.4	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5
>= 3500	12.9	76.2	80.4	82.0	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3
>= 3000	13.0	78.2	82.1	84.7	84.9	85.0	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1
>= 2500	13.0	79.2	84.0	86.0	86.2	86.3	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4
>= 2000	13.1	79.9	85.1	87.2	87.5	87.6	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7
>= 1800	13.1	80.0	85.3	87.4	87.7	87.8	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9
>= 1500	13.1	80.8	86.3	88.6	89.1	89.2	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3
>= 1200	13.1	81.8	87.5	89.9	90.5	90.6	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7
>= 1000	13.2	82.4	88.2	90.9	91.8	91.9	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0	92.0
>= 900	13.2	82.8	88.8	91.5	92.4	92.6	92.7	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8
>= 800	13.2	83.1	89.4	92.2	93.5	93.6	93.7	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9
>= 700	13.2	83.3	89.9	92.8	94.2	94.4	94.5	94.7	94.7	94.7	94.7	94.7	94.7	94.7	94.7
>= 600	13.2	83.5	90.3	93.4	94.9	95.0	95.2	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4
>= 500	13.2	83.9	90.9	94.2	95.8	96.1	96.2	96.5	96.5	96.6	96.6	96.6	96.6	96.6	96.6
>= 400	13.2	84.1	91.1	94.5	96.1	96.6	96.8	97.2	97.2	97.2	97.2	97.2	97.2	97.2	97.2
>= 300	13.2	84.1	91.1	94.6	96.4	96.9	97.5	97.9	98.0	98.1	98.1	98.1	98.1	98.1	98.1
>= 200	13.2	84.1	91.1	94.6	96.4	97.0	97.8	98.3	98.5	98.7	98.7	98.7	98.7	98.7	98.7
>= 100	13.2	84.1	91.1	94.7	96.5	97.1	97.9	98.4	98.7	99.0	99.0	99.0	99.1	99.3	99.6
>= 0	13.2	84.1	91.1	94.7	96.5	97.1	97.9	98.4	98.7	99.0	99.0	99.0	99.1	99.4	100.0

TOTAL NO. OF OBS : 1268



## 2 - CEILING VS VISIBILITY

013750 : NORFOLK, VA  
PERIOD OF RECORD : 1945-1986  
CLASS : ALL WEATHER  
CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : MAY  
HOUR : ALL

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

## VISIBILITY (STATUTE MILES)

CEILING	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=1	1/2	>=1	1/4	>=3/4	>=5/8	>=1/2	>=5/16	>=1/4	>=0
UNLIMIT	10.3	48.6	51.8	53.4	54.0	54.2	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.3	54.4	54.4	54.4
>=20000	11.0	53.2	56.8	58.5	59.2	59.3	59.4	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.6	59.6	59.6
>=18000	11.1	53.4	57.0	58.7	59.4	59.6	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.8	59.8	59.8
>=16000	11.1	53.4	57.0	58.7	59.4	59.6	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.7	59.8	59.8	59.8
>=14000	11.2	54.1	57.7	59.4	60.2	60.3	60.4	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.5	60.6
>=12000	11.5	55.5	59.2	61.0	61.7	61.9	62.0	62.0	62.0	62.0	62.0	62.1	62.1	62.1	62.1	62.1	62.1
>=10000	12.0	59.2	63.3	65.1	65.9	66.1	66.2	66.2	66.2	66.2	66.3	66.3	66.3	66.3	66.3	66.3	66.3
>=9000	12.0	59.6	63.6	65.5	66.3	66.5	66.6	66.6	66.6	66.6	66.6	66.7	66.7	66.7	66.7	66.7	66.7
>=8000	12.3	63.4	67.9	70.0	70.8	71.0	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.3	71.3	71.3
>=7000	12.4	64.2	68.8	70.9	71.8	72.0	72.2	72.2	72.2	72.2	72.2	72.3	72.3	72.3	72.3	72.3	72.3
>=6000	12.5	65.1	69.7	71.8	72.8	73.0	73.1	73.2	73.2	73.2	73.2	73.2	73.2	73.3	73.3	73.3	73.3
>=5000	12.8	66.6	71.3	73.6	74.6	74.8	75.0	75.0	75.0	75.0	75.0	75.1	75.1	75.1	75.1	75.1	75.1
>=4500	12.9	67.1	71.8	74.1	75.1	75.4	75.5	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.7	75.7	75.7
>=4000	13.1	69.0	74.1	76.5	77.6	77.8	78.0	78.0	78.0	78.0	78.0	78.1	78.1	78.1	78.1	78.1	78.1
>=3500	13.3	69.8	74.9	77.4	78.5	78.7	78.9	78.9	78.9	78.9	78.9	79.0	79.0	79.0	79.0	79.0	79.0
>=3000	13.6	72.0	77.5	80.1	81.3	81.5	81.8	81.8	81.8	81.8	81.9	81.9	81.9	81.9	81.9	81.9	81.9
>=2500	13.7	73.2	78.8	81.6	82.8	83.1	83.3	83.4	83.4	83.4	83.4	83.4	83.4	83.5	83.5	83.5	83.5
>=2000	13.9	74.6	80.5	83.5	84.8	85.1	85.3	85.4	85.4	85.4	85.5	85.5	85.5	85.5	85.5	85.5	85.5
>=1800	13.9	74.8	80.7	83.8	85.2	85.5	85.7	85.8	85.8	85.8	85.8	85.9	85.9	85.9	85.9	85.9	85.9
>=1500	14.0	75.9	82.0	85.2	86.9	87.2	87.5	87.6	87.6	87.6	87.6	87.6	87.6	87.7	87.7	87.7	87.7
>=1200	14.1	76.7	83.1	86.5	88.2	88.5	88.9	89.0	89.0	89.0	89.1	89.1	89.1	89.1	89.2	89.2	89.2
>=1000	14.1	77.7	84.3	87.8	89.8	90.2	90.6	90.8	90.8	90.9	90.9	90.9	90.9	90.9	90.9	90.9	91.0
>=900	14.1	78.1	84.9	88.5	90.5	91.0	91.4	91.6	91.6	91.7	91.7	91.7	91.7	91.8	91.8	91.8	91.8
>=800	14.1	78.6	85.5	89.3	91.6	92.0	92.7	92.9	92.9	93.0	93.0	93.0	93.0	93.1	93.1	93.1	93.1
>=700	14.2	79.0	86.2	90.1	92.5	93.2	93.9	94.1	94.1	94.3	94.3	94.3	94.3	94.4	94.4	94.4	94.4
>=600	14.2	79.2	86.5	90.6	93.3	93.9	94.8	95.0	95.0	95.2	95.2	95.2	95.2	95.3	95.3	95.3	95.3
>=500	14.2	79.5	86.9	91.3	94.1	94.9	95.9	96.3	96.3	96.5	96.5	96.5	96.5	96.6	96.7	96.7	96.7
>=400	14.2	79.6	87.2	91.7	94.6	95.6	96.7	97.2	97.2	97.4	97.4	97.5	97.5	97.7	97.7	97.7	97.7
>=300	14.2	79.7	87.2	91.8	94.8	95.9	97.2	97.8	97.8	97.9	98.2	98.3	98.3	98.5	98.5	98.5	98.5
>=200	14.2	79.7	87.3	91.9	94.9	96.0	97.4	98.1	98.1	98.2	98.6	98.8	98.8	99.1	99.2	99.2	99.2
>=100	14.2	79.7	87.3	91.9	94.9	96.0	97.4	98.2	98.2	98.2	98.7	98.9	99.0	99.3	99.4	99.5	99.6
>=0	14.2	79.7	87.3	91.9	94.9	96.0	97.4	98.2	98.2	98.2	98.7	99.0	99.0	99.3	99.5	99.6	100.0

TOTAL NO. OF OBS : 10184



# 1 - SURFACE WINDS

013750 : NORFOLK, VA  
 PERIOD OF RECORD : 1945-1986  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
 MONTH : JUN  
 HOUR : 0100 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

16 PT.		SPEED (KNOTS)																TOTAL %	MEAN WIND SPEED
DIR.		1	3	4	6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>56					
N			.3	.6	.5	.8	.1	.0	.0	.0	.1	.0	.0	.0	.0	2.4	10.0		
NNE		.2		.1	.4	1.1	.6	.0	.0	.0	.0	.0	.0	.0	.0	2.4	12.4		
NE		.2		1.0	.8	.6	.6	.0	.0	.0	.0	.0	.0	.0	.0	3.0	9.9		
ENE		.6		1.2	1.3	.6	.1	.0	.0	.0	.0	.0	.0	.0	.0	3.7	7.3		
E		1.3		1.8	1.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.4	5.5		
ESE		.7		1.0	.5	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	2.3	6.0		
SE		1.7		1.2	.7	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.7	4.5		
SSE		1.8		3.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.4	4.2		
S		2.1		5.1	4.8	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	13.3	6.4		
SSW		1.0		4.6	9.1	5.5	.3	.0	.0	.0	.0	.0	.0	.0	.0	20.5	8.9		
SW		1.8		3.0	5.2	2.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	12.5	7.7		
WSW		.7		2.1	1.4	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.8	6.7		
W		.4		1.0	.5	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	2.4	7.2		
WNW		.2		.6	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	6.5		
NW		.2		1.0	1.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.5	6.9		
NNW		.2		1.0	1.0	1.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	3.3	9.0		
VAR		.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CLM		.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12.0	.0		
ALL		13.5		28.3	29.3	14.7	2.2	.0	.0	.0	.1	.0	.0	.0	.0	100.0	6.6		

TOTAL NO. OF OBS : 1260

NOTES :  
 \* = PERCENT < .05



# 1 - SURFACE WINDS

013750 : NORFOLK, VA  
 PERIOD OF RECORD : 1985-1986  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
 MONTH : JUN  
 HOUR : 0400 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

16 PT. DIR.	1	2	3	4	5	6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>=56	TOTAL	MEAN WIND SPEED
N	.4	1.0	1.3	1.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.3	9.0
NNE	.2	.5	.9	.8	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.6	10.3
NE	.3	.9	1.3	1.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.0	9.8
ENE	.7	1.3	1.1	.9	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.1	7.5
E	1.3	1.0	.9	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.4	5.3
ESE	.7	.7	.4	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.1	5.8
SE	1.8	.6	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.5	4.5
SSE	1.8	1.4	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.7	4.0
S	1.4	2.7	2.1	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.7	6.1
SSW	2.2	3.7	9.0	2.7	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	17.8	7.8
SW	1.0	5.2	6.0	2.9	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	15.1	7.9
WSW	.6	3.2	2.5	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.8	6.7
W	.4	1.4	1.4	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.7	7.2
WNW	.4	.9	1.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.7	6.9
NW	.7	1.0	.8	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.9	6.6
NNW	.2	1.0	1.4	1.6	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	4.4	9.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12.4	.0
ALL	14.2	26.7	31.7	13.5	1.2	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	100.0	6.4

TOTAL NO. OF OBS : 1260

NOTES :  
 \* = PERCENT < .05



# 1 - SURFACE WINDS

013750 : NORFOLK, VA  
 PERIOD OF RECORD : 1945-1986  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
 MONTH : JUN  
 HOUR : 0700 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

DIR.	SPEED (KNOTS)																TOTAL	MEAN WIND SPEED
	16-21	21-26	26-31	31-36	36-41	41-46	46-51	51-56	56-61	61-66	66-71	71-76	76-81	81-86	86-91	91-96		
N	.6	.9	1.9	1.5	.2	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.0	9.0
NNE	1.0	1.1	1.7	1.4	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.7	9.4
NE	.3	1.2	1.7	1.7	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.3	9.9
ENE	.3	1.3	1.9	1.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.8	8.6
E	1.1	1.7	1.1	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.4	6.0
ESE	1.0	1.0	.6	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.9	6.0
SE	1.0	1.2	.7	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.1	5.2
SSE	.8	.7	1.0	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.9	6.4
S	.8	2.5	2.6	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.5	6.5
SSW	.7	2.5	6.0	2.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11.9	8.4
SW	.7	2.9	7.0	3.9	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14.6	8.7
WSW	1.3	4.1	5.1	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11.7	7.2
W	.6	2.6	2.2	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.0	6.7
WNW	.2	.9	.7	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.3	7.4
NW	.7	1.3	1.1	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.5	6.4
NNW	.5	1.8	2.0	1.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.5	8.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.9	.0
ALL	11.6	27.8	37.4	17.5	1.4	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	7.5

TOTAL NO. OF OBS : 1260

NOTES : \* = PERCENT < .05



# 1 - SURFACE WINDS

013750 : NORFOLK, VA  
 PERIOD OF RECORD : 1945-1986  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
 MONTH : JUN  
 HOUR : 1000 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

16 PT. DIR.	1	2	3	4	5	6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>=56	TOTAL %	MEAN WIND SPEED
N	1.9	3.7	3.2	1.0	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	10.3	7.2
NNE	.5	3.5	4.2	2.1	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	10.8	8.6
NE	.2	2.2	2.7	1.5	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.1	9.0
ENE	.4	1.7	3.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.9	8.5
E	.2	2.1	1.8	1.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.4	8.1
ESE	.1	.6	.5	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	8.8
SE	.2	.6	.6	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	7.2
SSE	.2	.5	.7	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	8.5
S	.4	2.0	1.0	.9	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.4	7.5
SSW	.1	1.8	6.1	2.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10.7	9.3
SW	.4	2.3	4.1	2.9	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.9	9.1
WSW	.5	2.2	4.6	3.7	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	11.3	9.2
W	.8	3.2	2.9	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.3	7.3
WNW	.2	1.4	1.4	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.8	7.5
NW	.2	.2	1.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9	8.1
NNW	.2	.7	1.1	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.6	8.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	.0
ALL	6.3	28.8	39.0	21.3	2.5	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	8.2

TOTAL NO. OF OBS : 1260

NOTES :  
 \* = PERCENT < .05



# 1 - SURFACE WINDS

013750 : NORFOLK, VA  
 PERIOD OF RECORD : 1945-1986  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
 MONTH : JUN  
 HOUR : 1300 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

16 PT. DIR.	1	2	3	4	5	6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>=56	TOTAL %	MEAN WIND SPEED
N	.7	1.7	1.3	1.3	.1	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	5.2	8.3
NNE	.5	3.9	5.6	1.9	.2	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	12.1	8.2
NE	.1	2.2	4.4	1.7	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.9	9.0
ENE	.5	3.7	7.1	2.9	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14.6	8.6
E	.6	2.0	3.1	1.7	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.6	8.3
ESE	.1	.7	.8	.2	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2	9.3
SE	.0	.3	.6	.6	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6	10.2
SSE	.0	.6	.7	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6	7.9
S	.3	.6	1.4	1.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.5	9.0
SSW	.4	1.4	4.4	3.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.8	9.7
SW	.2	1.0	2.9	3.7	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.0	10.3
WSW	.3	1.2	4.2	2.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.5	9.8
W	.2	2.1	4.0	1.7	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	8.1	8.6
WNW	.0	.9	1.7	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.0	9.3
NW	.2	.3	.6	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6	8.0
NNW	.2	.2	.5	.6	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	9.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	.0
ALL	4.4	22.9	43.6	24.8	2.9	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	103.0	8.9

TOTAL NO. OF OBS : 1260

NOTES : \* = PERCENT < .05



# 1 - SURFACE WINDS

013750 : NORFOLK, VA  
 PERIOD OF RECORD : 1945-1986  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
 MONTH : JUN  
 HOUR : 1600 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

16 PT. DIR.	1	3	4	6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>56	TOTAL	MEAN WIND SPEED
N	.1	1.1	.3	1.3	.1	.2	.0	.0	.0	.0	.0	.0	.0	3.0	10.3
NNE	.4	2.0	2.1	.8	.4	.1	.0	.0	.0	.0	.0	.0	.0	5.7	8.4
NE	.5	1.5	3.6	1.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	7.3	8.7
ENE	.5	4.6	6.0	1.9	.4	.0	.0	.0	.0	.0	.0	.0	.0	13.4	8.1
E	.7	5.7	7.3	1.8	.1	.0	.0	.0	.0	.0	.0	.0	.0	15.7	7.5
ESE	.4	1.1	2.6	1.4	.1	.1	.0	.0	.0	.0	.0	.0	.0	5.7	8.8
SE	.2	.6	1.9	1.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	4.2	10.1
SSE	.2	.2	1.6	1.3	.3	.1	.0	.0	.0	.0	.0	.0	.0	3.7	10.9
S	.3	.9	1.9	1.8	.2	.1	.0	.0	.0	.0	.0	.0	.0	5.0	9.5
SSW	.2	.6	4.4	4.1	.4	.0	.0	.0	.0	.0	.0	.0	.0	9.5	10.8
SW	.2	.6	3.5	2.8	.4	.1	.0	.0	.0	.0	.0	.0	.0	7.5	10.8
WSW	.1	1.5	3.2	2.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	7.2	9.4
W	.3	1.1	2.5	1.1	.2	.0	.1	.0	.0	.0	.0	.0	.0	5.3	8.9
WNW	.0	.8	1.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2	8.0
NW	.1	.1	.9	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	10.0
NNW	.2	.5	.4	.7	.1	.0	.0	.0	.0	.0	.0	.0	.0	1.8	9.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	.0
ALL	4.2	22.8	43.2	24.9	3.3	.5	.1	.0	.0	.0	.0	.0	.0	100.0	9.0

TOTAL NO. OF OBS : 1257

NOTES : \* = PERCENT < .05



# 1 - SURFACE WINDS

013750 : NORFOLK, VA  
 PERIOD OF RECORD : 1945-1986  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
 MONTH : JUN  
 HOUR : 1900 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

16 PT.		SPEED (KNOTS)																TOTAL		MEAN	
DIR.		1	-	3	4	-	6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>=56	%	SPEED			
N		.2					.2	.9		.1	.1	.0	.0	.0	.0	.0	2.3	10.2			
NNE		.2				.9	1.3	1.1		.5	.1	.0	.0	.0	.0	.0	4.0	10.5			
NE		.3				1.6	1.0	1.3		.1	.2	.0	.0	.0	.0	.0	4.4	9.0			
ENE		.6				2.5	2.4	1.0		.2	.0	.0	.0	.0	.0	.0	6.7	7.7			
E	2.5	.5				5.2	2.9	.9		.0	.0	.0	.0	.0	.0	.0	11.3	5.9			
ESE	1.2	.2				2.4	2.4	.6		.1	.0	.0	.0	.0	.0	.0	6.6	6.4			
SE	.9	.9				5.2	5.2	1.3		.0	.0	.0	.0	.0	.0	.0	12.5	6.9			
SSE	.0	.9				4.1	4.2	1.6		.2	.0	.0	.0	.0	.0	.0	11.0	7.5			
S	.5	.4				1.7	5.4	3.0		.0	.0	.0	.0	.0	.0	.0	10.6	8.9			
SSW	.4	.5				2.2	4.9	2.9		.1	.0	.0	.0	.0	.0	.0	13.5	8.9			
SW	.4	.4				2.7	3.3	1.6		.0	.0	.0	.0	.0	.0	.0	8.0	7.7			
WSW	.3	.3				1.8	1.1	.3		.0	.0	.0	.0	.0	.0	.0	3.6	6.5			
W	.3	.3				1.0	1.1	.1		.0	.0	.0	.0	.0	.0	.0	2.5	6.7			
WNW	.0	.0				.7	.7	.2		.0	.0	.0	.0	.0	.0	.0	1.4	7.7			
NW	.1	.1				.4	.4	.2		.0	.0	.0	.0	.0	.0	.0	.9	7.7			
NNW	.1	.1				.3	.2	.8		.1	.0	.0	.0	.0	.0	.0	1.5	10.7			
VAR	.0	.0				.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0			
CLM	.0	.0				.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	2.1	.0			
ALL	8.7	32.6				37.4	17.5	1.3		.3	.3	.0	.0	.0	.0	.0	103.0	7.6			

TOTAL NO. OF OBS : 1260

NOTES : \* = PERCENT < .05



# 1 - SURFACE WINDS

013750 : NORFOLK, VA  
 PERIOD OF RECORD : 1945-1986  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
 MONTH : JUN  
 HOUR : 2200 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

16 PT.	1	2	3	4	5	6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>=56	TOTAL	MEAN
DIR.	1	2	3	4	5	6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>=56	%	WIND
																	SPEED
N	.1	.2	.3	.6	.5	.5	.5	1.2	.3	.0	.0	.0	.0	.0	.0	2.6	11.2
NNE	.2	.3	.7	.8	.7	.8	.7	.8	.4	.1	.0	.0	.0	.0	.0	2.5	11.5
NE	.1	.5	.6	1.1	.6	1.1	.6	1.1	.2	.1	.0	.0	.0	.0	.0	2.5	10.7
ENE	.6	1.4	1.4	.6	1.4	.6	1.4	.6	.0	.0	.0	.0	.0	.0	.0	4.1	7.6
E	.8	2.7	1.6	.6	.9	.6	1.6	.6	.0	.0	.0	.0	.0	.0	.0	5.6	6.3
ESE	1.0	2.4	.9	.2	.2	.2	.9	.2	.0	.0	.0	.0	.0	.0	.0	4.3	4.9
SE	3.0	2.5	1.1	.2	.2	.2	1.1	.2	.0	.0	.0	.0	.0	.0	.0	6.8	4.3
SSE	3.3	5.3	2.7	.8	.8	.8	2.7	.8	.0	.0	.0	.0	.0	.0	.0	12.1	5.2
S	2.9	4.8	7.3	3.2	.6	.6	7.3	3.2	.0	.0	.0	.0	.0	.0	.0	18.7	7.7
SSW	.7	3.9	6.3	5.6	.5	.5	6.3	5.6	.0	.0	.0	.0	.0	.0	.0	17.0	9.3
SW	.4	2.0	2.9	1.0	.1	.1	2.9	1.0	.0	.0	.0	.0	.0	.0	.0	6.3	7.9
WSW	.6	.9	1.1	.2	.2	.2	1.1	.2	.0	.0	.0	.0	.0	.0	.0	2.9	7.3
W	.3	.6	.6	.1	.0	.0	.6	.1	.0	.0	.0	.0	.0	.0	.0	1.6	6.1
WNW	.2	.4	.4	.3	.2	.2	.4	.3	.0	.0	.0	.0	.0	.0	.0	1.6	9.6
NW	.3	.4	.6	.3	.0	.0	.6	.3	.0	.0	.0	.0	.0	.0	.0	1.6	7.4
NNW	.1	.3	.7	.7	.4	.4	.7	.7	.4	.0	.0	.0	.0	.0	.0	2.2	11.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.5	.0
ALL	14.5	28.9	29.4	16.6	2.8	.2	29.4	16.6	.2	.2	.0	.0	.0	.0	.0	100.0	7.0

TOTAL NO. OF OBS : 1260

NOTES :  
 \* = PERCENT < .05



# 1 - SURFACE WINDS

013750 : NORFOLK, VA  
 PERIOD OF RECORD : 1945-1986  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
 MONTH : JUN  
 HOUR : ALL

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

DIR.	1-5	6-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>=56	TOTAL	MEAN
											%	WIND SPEED
N	.5	1.2	1.2	.2	.1	.0	.0*	.0	.0	.0	4.4	8.8
NNE	.4	1.5	2.1	.4	.1	.0*	.0	.0	.0	.0	5.7	9.2
NE	.2	1.4	2.0	.3	.1	.0	.0	.0	.0	.0	5.3	9.3
ENE	.5	2.2	3.0	.1	.0*	.0	.0*	.0	.0	.0	7.3	8.1
E	1.1	2.8	2.5	.9	.0	.0	.0	.0	.0	.0	7.2	6.8
ESE	.7	1.2	1.1	.4	.0*	.0	.0	.0	.0	.0	3.5	6.9
SE	1.1	1.5	.5	.0*	.0	.0	.0	.0	.0	.0	4.6	6.3
SSE	1.1	2.0	1.5	.6	.0*	.0	.0	.0	.0	.0	5.3	6.4
S	1.1	2.5	3.3	1.5	.0*	.0	.0	.0	.0	.0	8.6	7.6
SSW	.7	2.6	6.3	.2	.0	.0	.0	.0	.0	.0	13.5	9.0
SW	.6	2.5	4.4	2.6	.0*	.0	.0	.0	.0	.0	10.3	8.6
WSW	.5	2.1	2.9	1.4	.0*	.0	.0	.0	.0	.0	7.1	8.1
W	.4	1.6	1.9	.7	.0*	.0*	.0	.0	.0	.0	4.7	7.6
WNN	.1	.8	1.0	.5	.0*	.0	.0	.0	.0	.0	2.4	7.9
NW	.3	.6	.8	.4	.0	.0	.0	.0	.0	.0	2.1	7.4
NNW	.2	.7	.9	.1	.0*	.0*	.0	.0	.0	.0	2.9	9.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.2	.0
ALL	9.7	27.3	36.4	18.9	2.2	.3	.0*	.0	.0	.0	100.0	7.7

TOTAL NO. OF OBS : 10077

NOTES : PERCENT < .05  
 \* = PERCENT < .05



## 2 - CEILING VS VISIBILITY

013750 : NORFOLK, VA  
PERIOD OF RECORD : 1945-1986  
CLASS : ALL WEATHER  
CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : JUN  
HOUR : 0100 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

## VISIBILITY (STATUTE MILES)

CEILING	>=10	>=6	>=5	>=4	>=3	>=2 1/2	>=2	>=1 1/2	>=1 1/4	>=1	>=3/4	>=5/8	>=1/2	>=5/16	>=1/4	>=0
UNLIMIT	8.0	55.4	59.4	61.9	63.9	64.0	64.4	64.4	64.4	64.4	64.5	64.5	64.6	64.7	64.7	64.7
>=20000	8.4	58.2	62.6	65.6	67.7	67.7	68.1	68.2	68.2	68.2	68.3	68.3	68.4	68.5	68.5	68.5
>=18000	8.4	58.2	62.6	65.6	67.7	67.7	68.1	68.2	68.2	68.2	68.3	68.3	68.4	68.5	68.5	68.5
>=16000	8.4	58.2	62.6	65.6	67.7	67.7	68.1	68.2	68.2	68.2	68.3	68.3	68.4	68.5	68.5	68.5
>=14000	8.4	58.6	63.1	66.0	68.1	68.2	68.6	68.7	68.7	68.7	68.8	68.8	68.9	68.9	68.9	68.9
>=12000	8.6	59.9	64.3	67.3	69.3	69.4	69.8	69.9	69.9	69.9	70.0	70.0	70.1	70.2	70.2	70.2
>=10000	8.8	63.5	68.1	71.2	73.3	73.4	73.8	73.9	73.9	73.9	73.9	73.9	74.0	74.1	74.1	74.1
>= 9000	8.9	63.6	68.3	71.4	73.5	73.5	73.9	74.0	74.0	74.0	74.1	74.1	74.2	74.3	74.3	74.3
>= 8000	9.1	68.1	73.3	76.4	78.5	78.6	79.0	79.1	79.1	79.1	79.2	79.2	79.3	79.3	79.3	79.3
>= 7000	9.3	69.4	74.6	77.8	80.0	80.0	80.5	80.5	80.5	80.5	80.6	80.6	80.7	80.8	80.8	80.8
>= 6000	9.4	70.1	75.2	78.6	80.8	80.9	81.3	81.3	81.3	81.3	81.4	81.4	81.5	81.6	81.6	81.6
>= 5000	9.5	71.1	76.5	80.0	82.2	82.3	82.7	82.8	82.8	82.8	82.9	82.9	82.9	83.0	83.0	83.0
>= 4500	9.5	71.5	76.9	80.5	82.6	82.7	83.1	83.2	83.2	83.2	83.3	83.3	83.3	83.4	83.4	83.4
>= 4000	9.6	72.6	78.1	81.7	83.8	83.9	84.3	84.4	84.4	84.4	84.5	84.5	84.6	84.6	84.6	84.6
>= 3500	9.7	73.3	78.8	82.3	84.5	84.6	85.0	85.0	85.0	85.0	85.1	85.1	85.2	85.3	85.3	85.3
>= 3000	9.7	75.2	80.9	84.6	86.7	86.8	87.2	87.3	87.3	87.3	87.4	87.4	87.4	87.5	87.5	87.5
>= 2500	9.7	76.1	81.8	85.7	87.9	88.0	88.4	88.5	88.5	88.5	88.6	88.6	88.7	88.7	88.7	88.7
>= 2000	9.7	77.3	83.2	87.1	89.5	89.6	90.0	90.1	90.1	90.1	90.2	90.2	90.3	90.3	90.3	90.3
>= 1800	9.8	77.9	83.7	87.7	90.1	90.2	90.6	90.7	90.7	90.7	90.7	90.7	90.8	90.9	90.9	90.9
>= 1500	9.8	78.8	84.7	88.7	91.1	91.2	91.6	91.6	91.6	91.6	91.7	91.7	91.8	91.9	91.9	91.9
>= 1200	9.9	79.4	85.4	89.4	91.8	91.9	92.4	92.4	92.4	92.4	92.5	92.5	92.6	92.7	92.7	92.7
>= 1000	10.0	80.3	86.5	90.4	92.9	93.0	93.5	93.6	93.6	93.6	93.6	93.6	93.7	93.8	93.8	93.8
>= 900	10.0	80.5	86.8	90.8	93.3	93.4	93.9	94.0	94.0	94.0	94.0	94.0	94.1	94.2	94.2	94.2
>= 800	10.0	81.0	87.4	91.5	94.1	94.2	94.8	94.9	94.9	94.9	95.0	95.0	95.1	95.2	95.2	95.2
>= 700	10.0	81.6	88.2	92.4	95.2	95.3	96.1	96.1	96.1	96.1	96.3	96.3	96.4	96.5	96.5	96.5
>= 600	10.0	81.8	88.7	93.1	95.9	96.0	96.9	97.0	97.0	97.0	97.2	97.2	97.3	97.3	97.3	97.3
>= 500	10.0	82.1	89.1	93.5	96.5	96.5	97.6	97.7	97.7	97.7	97.8	97.8	97.9	98.0	98.0	98.0
>= 400	10.0	82.2	89.5	94.0	97.3	97.3	98.5	98.7	98.7	98.8	99.0	99.0	99.0	99.1	99.1	99.1
>= 300	10.0	82.2	89.5	94.1	97.4	97.5	98.6	98.9	98.9	99.0	99.1	99.1	99.2	99.3	99.4	99.4
>= 200	10.0	82.3	89.6	94.2	97.7	97.7	98.9	99.1	99.1	99.2	99.4	99.4	99.4	99.5	99.6	99.6
>= 100	10.0	82.3	89.6	94.2	97.7	97.7	98.9	99.1	99.1	99.2	99.5	99.5	99.6	99.8	99.8	99.8
>= 0	10.0	82.3	89.6	94.2	97.7	97.7	98.9	99.1	99.1	99.2	99.5	99.5	99.6	99.8	99.8	100.0

TOTAL NO. OF OBS : 1243



013750 : NORFOLK, VA  
PERIOD OF RECORD : 1945-1986  
CLASS : ALL WEATHER  
CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : JUN  
HOUR : 0400 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)									
	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=1	1/4	>=1
UNLIMIT	6.2	47.2	52.4	55.5	57.7	58.4	59.3	59.8	59.8	59.8
>=20000	6.4	50.2	55.9	59.3	61.8	62.5	63.4	64.0	64.0	64.0
>=18000	6.4	50.2	56.0	59.4	61.9	62.6	63.5	64.0	64.0	64.0
>=16000	6.4	50.2	56.0	59.4	61.9	62.6	63.6	64.2	64.2	64.2
>=14000	6.4	50.6	56.3	59.7	62.3	63.1	64.0	64.5	64.5	64.5
>=12000	6.7	52.0	57.8	61.2	63.8	64.6	65.5	66.1	66.1	66.1
>=10000	7.0	55.4	61.9	65.3	68.0	68.8	69.7	70.3	70.3	70.3
>=9000	7.1	55.8	62.4	65.8	68.6	69.4	70.3	70.9	70.9	70.9
>=8000	7.7	60.3	67.4	71.0	73.9	74.8	75.6	76.2	76.2	76.2
>=7000	8.0	61.7	68.8	72.5	75.3	76.2	77.2	77.8	77.8	77.8
>=6000	8.0	61.9	69.1	72.7	75.6	76.5	77.4	78.0	78.0	78.0
>=5000	8.2	63.0	70.2	74.0	76.9	77.8	78.7	79.3	79.3	79.3
>=4500	8.3	63.2	70.5	74.3	77.2	78.1	79.1	79.6	79.6	79.6
>=4000	8.4	64.7	72.0	76.1	79.1	80.0	81.0	81.6	81.6	81.6
>=3500	8.5	65.4	72.8	76.9	79.9	80.8	81.8	82.4	82.4	82.4
>=3000	8.5	67.0	74.4	78.7	81.7	82.5	83.6	84.2	84.2	84.2
>=2500	8.6	68.2	75.8	80.3	83.4	84.3	85.5	86.0	86.0	86.0
>=2000	8.7	69.3	77.2	81.7	85.1	86.0	87.2	87.7	87.7	87.7
>=1800	8.7	69.6	77.5	82.1	85.5	86.4	87.6	88.1	88.1	88.1
>=1500	8.7	70.9	78.8	83.4	86.9	87.7	89.0	89.5	89.5	89.5
>=1200	8.8	71.6	79.8	84.4	88.0	89.0	90.3	90.8	90.8	90.8
>=1000	8.8	72.6	81.2	85.9	89.5	90.6	92.0	92.5	92.5	92.5
>=900	8.8	73.1	81.7	86.4	90.0	91.1	92.5	93.0	93.0	93.0
>=800	8.8	74.1	83.0	87.7	91.4	92.5	94.0	94.6	94.6	94.6
>=700	8.8	74.8	83.7	88.6	92.4	93.5	95.1	95.8	95.8	95.8
>=600	8.8	75.2	84.3	89.2	93.0	94.2	95.9	96.6	96.6	96.6
>=500	8.8	75.4	84.6	89.7	93.6	94.7	96.6	97.3	97.3	97.3
>=400	8.8	75.6	84.9	90.0	94.0	95.1	97.2	98.0	98.0	98.0
>=300	8.8	75.6	85.0	90.1	94.1	95.2	97.5	98.3	98.3	98.3
>=200	8.8	75.6	85.0	90.1	94.2	95.4	97.7	98.5	98.5	98.5
>=100	8.8	75.6	85.0	90.1	94.2	95.4	97.7	98.5	98.5	98.5
0	8.8	75.6	85.0	90.1	94.2	95.4	97.7	98.5	98.5	98.5

**TOTAL NO. OF OPS : 1232**



## 2 - CEILING VS VISIBILITY

013750 : NORFOLK, VA  
PERIOD OF RECORD : 1945-1986  
CLASS : ALL WEATHER  
CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : JUN  
HOUR : 0700 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)									
	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=1	1/4	>=1
UNLIMIT	4.7	36.6	44.2	50.1	53.9	54.7	55.5	56.0	56.0	56.2
>=20000	5.2	39.7	47.9	54.6	58.9	59.8	60.7	61.1	61.1	61.3
>=18000	5.3	39.8	48.0	54.7	58.9	60.0	60.8	61.3	61.3	61.5
>=16000	5.3	39.8	48.0	54.8	59.0	60.1	60.9	61.4	61.4	61.5
>=14000	5.5	40.2	48.5	55.3	59.5	60.6	61.4	61.9	62.0	62.0
>=12000	5.9	41.5	50.0	57.0	61.2	62.3	63.1	63.6	63.7	63.9
>=10000	6.5	44.8	53.7	60.8	65.2	66.4	67.4	67.9	68.0	68.2
>= 9000	6.6	45.1	54.1	61.3	65.7	67.0	68.0	68.5	68.6	68.8
>= 8000	6.7	49.3	59.0	66.7	71.3	72.9	74.0	74.5	74.6	74.8
>= 7000	6.9	50.3	60.2	67.8	72.5	74.0	75.2	75.7	75.9	76.0
>= 6000	6.9	50.5	60.3	68.0	72.8	74.3	75.5	76.0	76.2	76.3
>= 5000	7.1	51.5	61.5	69.3	74.1	75.6	76.8	77.3	77.5	77.6
>= 4500	7.1	52.0	62.0	69.8	74.8	76.3	77.5	78.0	78.1	78.3
>= 4000	7.2	53.4	63.6	71.5	76.5	78.0	79.3	79.9	80.1	80.2
>= 3500	7.2	54.2	64.4	72.4	77.4	78.9	80.2	80.8	81.0	81.1
>= 3000	7.2	55.4	65.8	74.0	79.3	81.0	82.3	82.8	83.0	83.2
>= 2500	7.2	56.0	66.5	74.7	80.2	82.0	83.3	83.8	84.0	84.1
>= 2000	7.3	56.9	67.8	76.2	81.6	83.6	84.9	85.4	85.6	85.8
>= 1800	7.3	57.2	68.2	76.6	82.1	84.1	85.4	85.9	86.1	86.3
>= 1500	7.4	57.9	69.1	77.6	83.2	85.2	86.6	87.2	87.3	87.5
>= 1200	7.4	58.9	70.3	79.2	84.9	86.9	88.3	88.9	89.1	89.3
>= 1000	7.6	60.2	71.7	80.7	86.8	88.9	90.4	91.1	91.2	91.4
>= 900	7.6	60.8	72.5	81.6	87.9	89.9	91.5	92.1	92.3	92.4
>= 800	7.6	61.9	73.7	83.0	89.4	91.5	93.1	93.8	94.0	94.1
>= 700	7.6	62.6	74.6	84.1	90.7	92.8	94.6	95.4	95.7	95.9
>= 600	7.6	62.8	75.0	84.6	91.3	93.4	95.2	96.2	96.5	96.7
>= 500	7.7	62.9	75.4	85.1	91.9	94.1	95.9	97.2	97.3	97.6
>= 400	7.7	62.9	75.4	85.1	91.9	94.1	95.9	97.2	97.3	97.6
>= 300	7.7	62.9	75.4	85.1	92.0	94.1	96.3	98.0	98.1	98.5
>= 200	7.7	62.9	75.4	85.1	92.0	94.1	96.5	98.4	98.5	99.0
>= 100	7.7	62.9	75.4	85.1	92.0	94.1	96.5	98.4	98.5	99.0
>= 0	7.7	62.9	75.4	85.1	92.0	94.1	96.5	98.4	98.5	99.0

TOTAL NO. OF OPS : 1230



## 2 - CEILING VS VISIBILITY

013750 : NORFOLK, VA  
PERIOD OF RECORD : 1945-1986  
CLASS : ALL WEATHER  
CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : JUN  
HOUR : 1000 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

## VISIBILITY (STATUTE MILES)

CEILING	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=1	1/2	>=1	>=3/4	>=5/8	>=1/2	>=5/16	>=1/4	>=0
UNLIMIT	9.4	46.6	52.1	56.6	58.2	58.5	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6
>=20000	10.7	50.9	57.3	62.0	63.8	64.2	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.4
>=18000	10.8	51.2	57.6	62.3	64.1	64.5	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6
>=16000	10.8	51.2	57.7	62.4	64.2	64.6	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7
>=14000	10.9	51.9	58.5	63.2	65.0	65.5	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6
>=12000	11.4	53.7	60.3	65.2	67.2	67.6	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8
>=10000	12.0	57.6	64.9	70.2	72.4	72.9	73.0	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1
>=9000	12.0	57.9	65.3	70.6	72.9	73.4	73.5	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6
>=8000	12.5	61.1	69.0	74.7	77.0	77.5	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6
>=7000	12.6	61.7	69.7	75.5	77.8	78.3	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4
>=6000	12.6	61.8	69.8	75.6	77.9	78.4	78.5	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6
>=5000	12.7	62.4	70.6	76.5	78.8	79.3	79.4	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5	79.5
>=4500	12.7	62.6	70.7	76.6	79.0	79.5	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6
>=4000	12.7	63.4	71.6	77.8	80.1	80.7	80.8	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9
>=3500	12.7	63.9	72.3	78.6	81.0	81.6	81.7	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8
>=3000	13.1	65.9	74.5	80.8	83.4	83.9	84.1	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2
>=2500	13.3	67.3	76.2	82.6	85.2	85.9	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1
>=2000	13.7	69.3	78.4	84.9	87.6	88.2	88.4	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5
>=1800	13.7	69.6	78.8	85.2	87.9	88.6	88.7	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8
>=1500	13.9	71.4	80.8	87.3	90.3	90.9	91.2	91.2	91.2	91.2	91.2	91.3	91.3	91.3	91.3	91.3
>=1200	13.9	72.5	82.4	89.1	92.1	92.7	92.9	93.0	93.0	93.0	93.0	93.1	93.1	93.1	93.1	93.1
>=1000	14.0	73.6	83.7	90.5	93.8	94.5	94.7	94.8	94.8	94.9	94.9	95.0	95.0	95.0	95.0	95.0
>=900	14.0	74.0	84.3	91.2	94.5	95.3	95.6	95.7	95.7	95.8	95.8	95.9	95.9	95.9	95.9	95.9
>=800	14.1	74.9	85.2	92.3	96.0	96.8	97.2	97.4	97.4	97.5	97.5	97.6	97.6	97.6	97.6	97.6
>=700	14.1	75.4	85.8	92.9	96.8	97.6	97.9	98.1	98.1	98.2	98.2	98.3	98.3	98.3	98.3	98.3
>=600	14.1	75.4	85.9	93.0	96.9	97.7	98.2	98.5	98.5	98.5	98.5	98.6	98.6	98.6	98.6	98.6
>=500	14.1	75.6	86.1	93.2	97.2	98.1	98.5	99.0	99.0	99.1	99.2	99.3	99.3	99.3	99.3	99.3
>=400	14.1	75.6	86.1	93.2	97.3	98.1	98.9	99.4	99.4	99.4	99.5	99.6	99.6	99.6	99.6	99.6
>=300	14.1	75.6	86.1	93.3	97.5	98.3	99.0	99.5	99.5	99.6	99.7	99.8	99.8	99.8	99.8	99.8
>=200	14.1	75.6	86.1	93.3	97.5	98.3	99.0	99.5	99.6	99.8	99.8	99.9	99.9	99.9	99.9	99.9
>=100	14.1	75.6	86.1	93.3	97.5	98.3	99.0	99.5	99.6	99.8	99.8	99.9	99.9	99.9	99.9	99.9
>=0	14.1	75.6	86.1	93.3	97.5	98.3	99.0	99.5	99.6	99.8	99.8	99.9	99.9	99.9	99.9	99.9

TOTAL NO. OF OBS : 1233



## 2 - CEILING VS VISIBILITY

013750 : NORFOLK, VA  
PERIOD OF RECORD : 1945-1986  
CLASS : ALL WEATHER  
CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : JUN  
HOUR : 1300 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)									
	>=10	>=6	>=5	>=4	>=3	>=2 1/2	>=2	>=1 1/2	>=1	>=1/4
UNLIMIT	12.0	46.5	51.1	53.2	54.1	54.3	54.3	54.4	54.4	>=0
>=20000	13.3	52.3	57.7	60.3	61.4	61.4	61.4	61.5	61.5	54.4
>=18000	13.4	52.4	57.9	60.5	61.4	61.6	61.6	61.7	61.7	54.4
>=16000	13.4	52.5	58.1	60.7	61.6	61.8	61.9	61.9	61.9	61.5
>=14000	13.5	53.2	58.7	61.3	62.2	62.5	62.5	62.5	62.5	61.7
>=12000	14.2	55.5	61.2	63.8	64.7	65.0	65.0	65.1	65.1	61.9
>=10000	14.5	58.8	65.1	67.9	69.0	69.3	69.4	69.4	69.4	62.5
>=9000	14.6	59.0	65.3	68.2	69.2	69.5	69.6	69.6	69.6	62.5
>=8000	14.8	62.9	69.7	72.9	74.1	74.4	74.5	74.5	74.5	65.1
>=7000	15.1	63.6	70.4	73.7	75.0	75.3	75.4	75.4	75.4	65.1
>=6000	15.1	63.8	70.6	73.9	75.2	75.5	75.6	75.6	75.6	69.4
>=5000	15.2	64.9	71.9	75.3	76.7	77.1	77.1	77.2	77.2	69.6
>=4500	15.3	65.4	72.5	75.9	77.3	77.8	77.8	77.9	77.9	74.5
>=4000	15.7	66.8	74.0	77.4	78.9	79.5	79.6	79.6	79.6	75.4
>=3500	16.0	68.3	75.8	79.3	80.8	81.4	81.4	81.4	81.4	75.6
>=3000	16.5	72.1	80.0	83.5	85.2	85.8	85.9	85.9	85.9	77.2
>=2500	17.3	74.8	82.9	86.6	88.3	89.0	89.1	89.1	89.1	77.9
>=2000	17.9	76.8	85.0	88.8	90.6	91.3	91.4	91.4	91.4	79.6
>=1800	18.0	77.0	85.3	89.3	91.0	91.7	91.8	91.9	91.9	81.4
>=1500	18.1	78.3	86.6	90.8	92.7	93.5	93.6	93.7	93.8	85.9
>=1200	18.1	79.2	87.8	92.1	94.1	94.9	95.0	95.1	95.2	89.1
>=1000	18.1	80.0	88.8	93.2	95.3	96.1	96.2	96.3	96.4	91.4
>=900	18.1	80.1	88.8	93.6	95.7	96.5	96.6	96.7	96.8	91.9
>=800	18.1	80.6	89.3	94.3	96.5	97.3	97.6	97.8	97.9	93.8
>=700	18.1	80.9	89.6	94.5	96.9	97.7	98.1	98.4	98.5	95.2
>=600	18.1	80.9	89.7	94.6	97.2	98.1	98.5	98.8	98.9	96.4
>=500	18.1	80.9	89.7	94.6	97.2	98.1	98.5	98.8	98.9	96.8
>=400	18.1	81.0	89.7	94.7	97.6	98.5	98.9	99.2	99.3	98.5
>=300	18.1	81.1	89.8	94.8	97.6	98.5	99.0	99.3	99.4	99.4
>=200	18.1	81.1	89.8	94.8	97.6	98.6	99.1	99.4	99.5	99.6
>=100	18.1	81.1	89.8	94.8	97.6	98.6	99.1	99.4	99.5	99.7
>=0	18.1	81.1	89.8	94.8	97.6	98.6	99.1	99.4	99.5	99.8

TOTAL NO. OF OBS : 1228



## 2 - CEILING VS VISIBILITY

013750 : NORFOLK, VA  
PERIOD OF RECORD : 1945-1986  
CLASS : ALL WEATHER  
CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : JUN  
HOUR : 1600 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)									
	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=1	1/2	>=1/4
UNLIMIT	13.4	49.7	53.7	55.8	56.8	57.1	57.2	57.2	57.2	57.2
>=20000	14.7	55.3	59.9	62.3	63.4	63.7	63.7	63.7	63.7	63.7
>=18000	15.0	55.8	60.4	62.8	63.9	64.1	64.2	64.2	64.2	64.2
>=16000	15.0	55.8	60.4	62.9	64.0	64.2	64.3	64.3	64.3	64.3
>=14000	15.1	56.3	60.9	63.4	64.5	64.7	64.8	64.8	64.8	64.8
>=12000	15.6	58.0	62.6	65.0	66.2	66.4	66.5	66.5	66.5	66.5
>=10000	16.0	61.0	66.3	68.8	70.1	70.3	70.5	70.5	70.5	70.5
>=9000	16.0	61.3	66.6	69.2	70.5	70.7	70.9	70.9	70.9	70.9
>=8000	16.4	65.0	70.9	73.8	75.0	75.3	75.5	75.5	75.5	75.5
>=7000	16.5	65.8	71.9	74.8	76.1	76.4	76.6	76.6	76.6	76.6
>=6000	16.7	66.4	72.5	75.4	76.7	77.1	77.2	77.2	77.2	77.2
>=5000	16.8	67.4	73.6	76.6	77.9	78.2	78.4	78.4	78.4	78.4
>=4500	16.9	67.7	73.9	76.9	78.2	78.5	78.7	78.7	78.7	78.7
>=4000	17.6	69.5	75.9	79.0	80.3	80.7	80.8	80.8	80.8	80.8
>=3500	18.0	71.0	77.6	80.8	82.1	82.4	82.6	82.6	82.6	82.6
>=3000	19.7	74.5	81.6	85.0	86.3	86.8	87.0	87.1	87.1	87.1
>=2500	19.0	76.5	84.0	87.5	89.1	89.6	89.7	89.8	89.9	89.9
>=2000	19.2	77.9	85.4	89.2	90.8	91.4	91.5	91.7	91.8	91.8
>=1800	19.2	78.4	85.9	89.8	91.4	91.9	92.1	92.3	92.4	92.4
>=1500	19.2	79.4	87.2	91.4	93.1	93.7	94.1	94.3	94.4	94.4
>=1200	19.3	79.9	87.7	92.0	93.8	94.3	94.8	95.1	95.1	95.1
>=1000	19.4	80.7	88.8	93.2	95.1	95.7	96.3	96.5	96.7	96.7
>=900	19.4	80.8	88.9	93.4	95.4	96.1	96.6	96.9	97.0	97.0
>=800	19.4	81.0	89.1	93.8	96.0	96.8	97.6	97.9	98.1	98.1
>=700	19.4	81.3	89.4	94.2	96.4	97.2	98.1	98.4	98.7	98.7
>=600	19.4	81.3	89.6	94.4	96.7	97.5	98.4	98.7	99.1	99.1
>=500	19.4	81.3	89.6	94.6	96.9	97.7	98.7	99.0	99.4	99.4
>=400	19.4	81.3	89.6	94.6	96.9	97.7	98.8	99.1	99.5	99.6
>=300	19.4	81.3	89.6	94.6	96.9	97.8	98.9	99.3	99.8	99.8
>=200	19.4	81.3	89.6	94.6	96.9	97.8	98.9	99.3	99.8	99.9
>=100	19.4	81.3	89.6	94.6	96.9	97.8	98.9	99.3	99.8	99.9
>=0	19.4	81.3	89.6	94.6	96.9	97.8	98.9	99.3	99.8	100.0

TOTAL NO. OF OBS : 1216



## 2 - CEILING VS VISIBILITY

013750 : NORFOLK, VA  
PERIOD OF RECORD : 1945-1986  
CLASS : ALL WEATHER  
CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : JUN  
HOUR : 1900 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)									
	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=1	1/4	>=1
UNLIMIT	10.3	47.5	52.6	54.5	55.5	55.9	56.0	56.0	56.0	56.0
>=20000	11.8	54.4	60.6	63.0	64.3	64.7	64.8	64.8	64.8	64.8
>=18000	11.9	54.6	60.9	63.3	64.5	64.9	65.0	65.0	65.0	65.0
>=16000	11.9	55.0	61.2	63.6	64.9	65.3	65.3	65.3	65.3	65.3
>=14000	12.3	55.6	62.0	64.4	65.6	66.0	66.1	66.1	66.1	66.1
>=12000	12.6	56.8	63.3	65.7	67.0	67.4	67.5	67.5	67.5	67.5
>=10000	13.0	60.9	67.8	70.5	71.9	72.4	72.5	72.5	72.5	72.5
>= 9000	13.1	61.1	68.2	70.8	72.3	72.7	72.9	72.9	72.9	72.9
>= 8000	13.5	65.5	73.3	76.1	77.7	78.1	78.3	78.3	78.3	78.3
>= 7000	13.7	66.5	74.7	77.6	79.2	79.6	79.8	79.8	79.8	79.8
>= 6000	13.7	66.8	75.0	77.9	79.5	80.0	80.2	80.2	80.2	80.2
>= 5000	14.2	68.4	76.8	79.7	81.5	81.9	82.2	82.2	82.2	82.2
>= 4500	14.3	68.8	77.2	80.1	81.9	82.4	82.8	82.8	82.8	82.8
>= 4000	14.8	71.0	80.0	82.9	84.8	85.3	85.6	85.6	85.6	85.6
>= 3500	14.9	71.7	80.8	83.7	85.8	86.3	86.6	86.6	86.6	86.6
>= 3000	14.9	73.3	82.9	86.4	88.5	89.1	89.6	89.6	89.6	89.6
>= 2500	15.0	73.8	83.7	87.1	89.4	90.1	90.6	90.6	90.6	90.6
>= 2000	15.1	74.8	84.7	88.1	90.6	91.3	91.8	91.8	91.8	91.8
>= 1800	15.1	75.1	84.9	88.4	90.9	91.7	92.2	92.2	92.2	92.2
>= 1500	15.2	75.7	85.7	89.5	92.2	92.9	93.5	93.5	93.5	93.5
>= 1200	15.3	76.2	86.3	90.1	92.8	93.6	94.2	94.2	94.2	94.2
>= 1000	15.3	76.9	87.1	91.4	94.5	95.4	96.3	96.3	96.3	96.3
>= 900	15.3	76.9	87.2	91.5	94.6	95.6	96.6	96.6	96.6	96.6
>= 800	15.3	77.3	87.6	92.2	95.5	96.6	97.6	97.6	97.6	97.6
>= 700	15.3	77.4	87.7	92.4	95.9	96.9	98.1	98.1	98.1	98.1
>= 600	15.3	77.6	88.0	92.8	96.5	97.6	99.0	99.0	99.0	99.0
>= 500	15.3	77.6	88.1	93.0	96.6	97.8	99.3	99.3	99.3	99.3
>= 400	15.3	77.6	88.1	93.1	96.7	97.9	99.4	99.4	99.4	99.4
>= 300	15.3	77.6	88.1	93.1	96.7	97.9	99.4	99.4	99.4	99.4
>= 200	15.3	77.6	88.1	93.1	96.7	97.9	99.6	99.6	99.6	99.6
>= 100	15.3	77.6	88.1	93.1	96.7	97.9	99.6	99.6	99.6	99.6
>= 0	15.3	77.6	88.1	93.1	96.7	97.9	99.6	99.6	99.6	99.6

TOTAL NO. OF OBS : 1212



## 2 - CEILING VS VISIBILITY

013750 : NORFOLK, VA  
PERIOD OF RECORD : 1945-1986  
CLASS : ALL WEATHER  
CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : JUN  
HOUR : 2200 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)									
	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=1	1/2	>=1
UNLIMIT	8.8	54.6	58.3	60.2	61.8	61.8	61.8	61.8	61.8	61.8
>=20000	8.8	58.2	62.4	64.6	66.3	66.3	66.4	66.4	66.4	66.4
>=18000	8.9	58.4	62.6	64.7	66.4	66.5	66.6	66.6	66.6	66.6
>=16000	9.1	58.6	62.8	65.0	66.7	66.7	66.8	66.8	66.8	66.8
>=14000	9.2	59.0	63.2	65.4	67.1	67.1	67.2	67.2	67.2	67.2
>=12000	9.8	60.6	65.1	67.2	68.9	69.0	69.1	69.1	69.1	69.1
>=10000	10.0	64.4	69.2	71.6	73.3	73.3	73.4	73.5	73.5	73.5
>= 9000	10.0	64.5	69.3	71.6	73.3	73.4	73.5	73.6	73.6	73.6
>= 8000	10.5	69.2	74.2	76.5	78.3	78.4	78.5	78.6	78.6	78.6
>= 7000	10.8	70.2	75.3	77.8	79.7	79.8	79.9	79.9	79.9	79.9
>= 6000	11.0	70.7	75.8	78.3	80.2	80.3	80.4	80.4	80.4	80.4
>= 5000	11.2	72.0	77.3	79.8	81.8	82.0	82.1	82.1	82.1	82.1
>= 4500	11.2	72.4	77.7	80.3	82.3	82.4	82.5	82.6	82.6	82.6
>= 4000	11.2	73.5	79.3	82.2	84.2	84.3	84.4	84.4	84.4	84.4
>= 3500	11.2	73.6	79.4	82.4	84.4	84.5	84.6	84.7	84.7	84.7
>= 3000	11.3	75.9	82.2	85.5	87.6	87.7	87.8	87.8	87.8	87.8
>= 2500	11.4	76.6	83.2	86.7	88.8	89.1	89.2	89.2	89.2	89.2
>= 2000	11.5	78.0	84.9	88.4	90.6	90.7	90.8	90.9	90.9	90.9
>= 1800	11.5	78.5	85.4	88.9	91.1	91.2	91.4	91.5	91.5	91.5
>= 1500	11.6	79.6	86.6	90.4	92.5	92.6	92.9	93.0	93.0	93.0
>= 1200	11.6	80.2	87.6	91.5	93.7	94.0	94.3	94.4	94.4	94.4
>= 1000	11.6	80.7	88.3	92.4	94.9	95.2	95.6	95.7	95.7	95.7
>= 900	11.6	80.8	88.4	92.6	95.2	95.5	95.9	96.0	96.0	96.0
>= 800	11.6	81.4	89.7	93.6	96.4	96.8	97.2	97.3	97.3	97.3
>= 700	11.6	81.6	89.7	94.1	96.9	97.3	97.7	97.8	97.8	97.8
>= 600	11.6	81.8	90.1	94.5	97.3	97.8	98.2	98.3	98.3	98.3
>= 500	11.6	82.2	90.4	94.9	97.8	98.2	98.6	98.7	98.7	98.7
>= 400	11.6	82.3	90.8	95.2	98.2	98.6	99.0	99.1	99.1	99.1
>= 300	11.6	82.3	90.8	95.2	98.2	98.6	99.0	99.4	99.4	99.4
>= 200	11.6	82.3	90.8	95.3	98.2	98.6	99.1	99.5	99.5	99.5
>= 100	11.6	82.3	90.8	95.3	98.2	98.6	99.1	99.5	99.5	99.5
>= 0	11.6	82.3	90.8	95.3	98.2	98.6	99.1	99.5	99.5	99.5

TOTAL NO. OF OBS : 1245



## 2 - CEILING VS VISIBILITY

013750 : NORFOLK, VA  
PERIOD OF RECORD : 1945-1986  
CLASS : ALL WEATHER  
CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : JUN  
HOUR : ALL

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)															
	>=10	>=6	>=5	>=4	>=3	>=2 1/2	>=2	>=1 1/2	>=1 1/4	>=1	>=3/4	>=5/8	>=1/2	>=5/16	>=1/8	>=0
UNLIMIT	9.1	48.0	53.0	56.0	57.7	58.1	58.4	58.6	58.6	58.6	58.6	58.6	58.7	58.7	58.7	58.7
>=20000	9.9	52.4	58.1	61.5	63.4	63.8	64.1	64.3	64.3	64.3	64.4	64.4	64.4	64.4	64.4	64.4
>=18000	10.0	52.6	58.2	61.7	63.6	64.0	64.3	64.5	64.5	64.5	64.6	64.6	64.6	64.6	64.6	64.6
>=16000	10.0	52.7	58.4	61.8	63.7	64.2	64.4	64.6	64.6	64.6	64.7	64.7	64.7	64.8	64.8	64.8
>=14000	10.2	53.2	58.9	62.3	64.3	64.7	65.0	65.2	65.2	65.2	65.3	65.3	65.3	65.3	65.3	65.3
>=12000	10.6	54.8	60.6	64.1	66.1	66.5	66.8	66.9	66.9	67.0	67.0	67.0	67.1	67.1	67.1	67.1
>=10000	11.0	58.3	64.6	68.3	70.4	70.9	71.2	71.4	71.4	71.4	71.5	71.5	71.5	71.5	71.5	71.5
>= 9000	11.0	58.6	64.9	68.6	70.7	71.2	71.5	71.7	71.7	71.8	71.8	71.8	71.8	71.9	71.9	71.9
>= 8000	11.4	62.7	69.6	73.5	75.7	76.2	76.6	76.8	76.8	76.8	76.9	76.9	76.9	76.9	76.9	76.9
>= 7000	11.6	63.7	70.7	74.7	76.9	77.5	77.8	78.0	78.0	78.1	78.1	78.1	78.1	78.2	78.2	78.2
>= 6000	11.7	64.0	71.1	75.1	77.3	77.9	78.2	78.4	78.4	78.4	78.5	78.5	78.5	78.6	78.6	78.6
>= 5000	11.8	65.1	72.3	76.4	78.8	79.3	79.6	79.8	79.8	79.9	79.9	79.9	80.0	80.0	80.0	80.0
>= 4500	11.9	65.5	72.7	76.8	79.2	79.7	80.1	80.3	80.3	80.3	80.4	80.4	80.4	80.4	80.4	80.5
>= 4000	12.1	66.9	74.3	78.6	81.0	81.5	81.9	82.2	82.2	82.2	82.2	82.2	82.3	82.3	82.3	82.3
>= 3500	12.2	67.7	75.2	79.6	82.0	82.5	82.9	83.2	83.2	83.2	83.2	83.3	83.3	83.3	83.3	83.3
>= 3000	12.5	69.9	77.8	82.3	84.8	85.4	85.9	86.1	86.1	86.1	86.2	86.2	86.2	86.2	86.3	86.3
>= 2500	12.7	71.2	79.3	83.9	86.5	87.2	87.7	87.9	87.9	87.9	88.0	88.0	88.0	88.0	88.0	88.1
>= 2000	12.9	72.5	80.8	85.6	88.3	89.0	89.5	89.7	89.7	89.7	89.8	89.8	89.8	89.9	89.9	89.9
>= 1800	12.9	72.9	81.2	86.0	88.7	89.5	89.9	90.2	90.2	90.2	90.3	90.3	90.3	90.3	90.3	90.4
>= 1500	13.0	74.0	82.4	87.4	90.2	91.0	91.5	91.8	91.8	91.8	91.9	91.9	91.9	91.9	92.0	92.0
>= 1200	13.0	74.8	83.4	88.5	91.4	92.2	92.7	93.0	93.0	93.0	93.1	93.1	93.1	93.2	93.2	93.2
>= 1000	13.1	75.6	84.5	89.7	92.8	93.7	94.3	94.6	94.6	94.7	94.7	94.7	94.8	94.8	94.8	94.8
>= 900	13.1	75.9	84.8	90.1	93.3	94.2	94.9	95.1	95.1	95.2	95.3	95.3	95.3	95.4	95.4	95.4
>= 800	13.1	76.5	85.6	91.0	94.4	95.3	96.1	96.4	96.4	96.5	96.6	96.6	96.6	96.7	96.7	96.7
>= 700	13.1	76.9	86.1	91.7	95.1	96.0	96.9	97.3	97.3	97.4	97.5	97.5	97.5	97.6	97.6	97.6
>= 600	13.1	77.1	86.4	92.0	95.6	96.5	97.5	97.9	97.9	98.0	98.1	98.1	98.2	98.2	98.2	98.2
>= 500	13.1	77.3	86.6	92.3	96.0	96.9	98.0	98.4	98.5	98.6	98.7	98.7	98.8	98.8	98.8	98.8
>= 400	13.1	77.3	86.7	92.5	96.2	97.2	98.3	98.8	98.8	99.0	99.1	99.1	99.2	99.2	99.3	99.3
>= 300	13.1	77.3	86.8	92.5	96.3	97.2	98.4	99.0	99.1	99.3	99.4	99.4	99.5	99.5	99.6	99.6
>= 200	13.1	77.4	86.8	92.6	96.4	97.3	98.5	99.2	99.2	99.4	99.6	99.6	99.7	99.8	99.8	99.8
>= 100	13.1	77.4	86.8	92.6	96.4	97.3	98.5	99.2	99.2	99.4	99.6	99.7	99.8	99.8	99.9	99.9
>= 0	13.1	77.4	86.8	92.6	96.4	97.3	98.5	99.2	99.2	99.4	99.7	99.7	99.8	99.8	99.9	100.0

TOTAL NO. OF OBS : 9839



# 1 - SURFACE WINDS

013750 : NORFOLK, VA  
 PERIOD OF RECORD : 1945-1986  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
 MONTH : JUL  
 HOUR : 0100 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

DIR.	SPEED (KNOTS)																TOTAL	MEAN
	16-20	21-25	26-30	31-35	36-40	41-45	46-50	51-55	56-60	61-65	66-70	71-75	76-80	81-85	86-90	91-95		
N	.5	.5	.5	.5	.5	.5	.5	.5	.5	.5	.5	.5	.5	.5	.5	.5	2.2	8.5
NNE	.1	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	1.2	9.6
NE	.1	.7	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	2.3	8.4
ENE	.6	.9	1.1	.5	.5	.5	.5	.5	.5	.5	.5	.5	.5	.5	.5	.5	3.2	7.1
E	1.0	.9	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	2.6	5.4
ESE	.7	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	3.4
SE	1.5	1.4	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	3.0	3.8
SSE	2.9	1.9	.5	.5	.5	.5	.5	.5	.5	.5	.5	.5	.5	.5	.5	.5	5.5	4.2
S	2.2	4.9	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	12.3	6.5
SSW	1.5	6.5	10.8	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	23.6	8.1
SW	1.5	4.6	7.2	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	15.9	7.7
WSW	1.0	2.2	1.9	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	5.5	6.3
W	.2	1.8	1.7	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	4.0	6.7
WNW	.6	.4	.6	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	1.8	6.0
NW	.3	.5	.8	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	1.8	6.6
NNW	.3	.3	.5	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	1.5	7.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12.2	.0
ALL	15.0	28.4	31.5	11.6	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	6.2

TOTAL NO. OF OBS : 1298

NOTES :  
 \* = PERCENT < .05



# 1 - SURFACE WINDS

013750 : NORFOLK, VA  
 PERIOD OF RECORD : 1945-1986  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
 MONTH : JUL  
 HOUR : 0400 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

16 PT. DIR.	SPEED (KNOTS)																TOTAL Σ	MEAN WIND SPEED
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>=56							
N	.2	.7	1.8	1.1	.1	.0	.0	.0	.0	.0	.0	.0	3.8	8.9				
NNE	.1	.5	.4	.8	.1	.0	.0	.0	.0	.0	.0	.0	1.8	9.9				
NE	.6	1.1	.9	.6	.6	.0	.0	.0	.0	.0	.0	.0	3.8	9.1				
ENE	.5	1.1	1.2	.4	.0	.1	.0	.0	.0	.0	.0	.0	3.2	7.1				
E	1.2	.7	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	2.2	4.0				
ESE	.7	.8	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6	4.1				
SE	.7	.9	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	1.9	4.6				
SSE	1.8	1.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.5	3.9				
S	1.5	2.8	1.8	.2	.1	.0	.0	.0	.0	.0	.0	.0	6.4	5.7				
SSW	1.7	6.0	7.9	3.1	.0	.0	.0	.0	.0	.0	.0	.0	18.6	7.5				
SW	1.5	5.6	9.8	2.7	.2	.0	.0	.0	.0	.0	.0	.0	19.8	7.8				
WSW	1.4	3.6	2.2	.7	.0	.0	.0	.0	.0	.0	.0	.0	7.9	6.1				
W	.7	2.6	1.7	.2	.0	.0	.0	.0	.0	.0	.0	.0	5.2	5.9				
WNW	.5	1.1	.8	.1	.0	.0	.0	.0	.0	.0	.0	.0	2.4	6.0				
NW	.4	2.0	1.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	3.6	6.0				
NNW	.2	.8	.6	.5	.0	.0	.0	.0	.0	.0	.0	.0	2.1	7.6				
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0				
CLM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12.2	.0				
ALL	13.5	31.6	30.9	10.7	1.1	.1	.0	.0	.0	.0	.0	.0	100.0	6.1				

TOTAL NO. OF OBS : 1299

NOTES :  
 \* = PERCENT < .05



# 1 - SURFACE WINDS

013750 : NORFOLK, VA  
 PERIOD OF RECORD : 1945-1986  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
 MONTH : JUL  
 HOUR : 0700 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

16 PT. DIR.	1	2	3	4	5	6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>=56	TOTAL %	MEAN WIND SPEED
N	.8	1.5	1.7	1.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.1	7.7
NNE	.1	.8	1.2	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.9	9.1
NE	.2	.9	2.1	1.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.2	10.4
ENE	.5	1.3	1.7	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.0	7.5
E	1.1	1.2	.8	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.2	5.1
ESE	.8	.5	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6	4.3
SE	.5	1.0	.6	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2	5.7
SSE	.8	1.2	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.6	5.0
S	1.1	1.9	1.9	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.7	6.7
SSW	.6	3.8	6.1	3.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13.8	8.3
SW	1.5	4.8	9.2	3.8	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	19.5	8.0
WSW	1.0	3.9	5.8	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11.9	7.2
W	.8	2.5	2.8	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.5	6.5
WNW	.3	1.1	.8	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.3	6.2
NW	.3	1.5	.8	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.7	6.0
NNW	.5	1.8	1.9	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.1	7.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.7	.0
ALL	10.7	29.8	38.5	14.4	.8	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	7.0

TOTAL NO. OF OBS : 1299

NOTES : \* = PERCENT < .05



# 1 - SURFACE WINDS

013750 : NORFOLK, VA  
 PERIOD OF RECORD : 1945-1986  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
 MONTH : JUL  
 HOUR : 1000 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

16 PT. DIR.	1	3	4	6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>=56	TOTAL %	MEAN WIND SPEED
N	1.4	3.2	2.5	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.8	6.8
NNE	.8	3.6	4.2	2.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	11.2	8.1
NE	.5	1.3	2.3	1.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	5.8	9.4
ENE	.3	1.2	2.6	1.2	.5	.0	.0	.0	.0	.0	.0	.0	.0	5.8	9.1
E	.3	1.5	1.5	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.1	7.6
ESE	.2	.4	.8	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	7.4
SE	.4	.7	.7	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0	6.5
SSE	.4	.5	.5	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.8	7.0
S	1.3	1.3	1.5	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.8	6.4
SSW	.5	2.3	4.9	3.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	11.2	9.2
SW	.7	3.0	3.7	3.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	11.0	8.7
WSW	.4	4.0	6.1	2.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	13.0	8.3
W	1.0	4.4	3.4	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	10.2	6.9
WNW	.2	1.1	.8	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.4	6.6
NW	.1	.5	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	6.2
NNW	.8	1.1	.9	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.9	5.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.7	.0
ALL	9.2	30.2	36.8	18.8	2.2	.0	.0	.2	.0	.0	.0	.0	.0	100.0	7.7

TOTAL NO. OF OBS : 1300

NOTES : \* = PERCENT < .05



# 1 - SURFACE WINDS

013750 : NORFOLK, VA  
 PERIOD OF RECORD : 1945-1986  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT

MONTH : JUL

HOUR : 1300 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

DIR.	SPEED (KNOTS)																TOTAL #	MEAN WIND SPEED
	16-21	21-26	26-31	31-36	36-41	41-46	46-51	51-56	56-61	61-66	66-71	71-76	76-81	81-86	86-91	91-96		
N	.8	3.0	1.5	.6	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.0	6.4
NNE	.8	3.1	6.0	1.8	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12.2	8.4
NE	.5	2.8	3.8	1.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.1	8.4
ENE	.2	2.2	6.2	2.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11.1	8.8
E	1.1	1.5	2.6	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.4	7.4
ESE	.2	.4	.7	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	8.1
SE	.0	.4	1.0	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9	9.5
SSE	.2	.6	1.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.1	7.6
S	.2	1.4	1.5	1.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.2	8.4
SSW	.2	1.5	4.0	3.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.9	9.8
SW	.4	1.5	4.0	3.9	.6	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10.5	10.1
WSW	.4	2.4	3.5	3.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.5	8.9
W	.5	4.2	3.2	2.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10.2	7.7
WNW	.4	1.0	1.2	.5	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.2	7.9
NW	.2	.1	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	7.3
NNW	.2	.5	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	6.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	.0
ALL	6.0	26.6	41.2	21.8	3.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	8.4

TOTAL NO. OF OBS : 1300

NOTES : # = PERCENT < .05



# 1 - SURFACE WINDS

013750 : NORFOLK, VA LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
 PERIOD OF RECORD : 1945-1986 MONTH : JUL  
 CLASS : ALL WEATHER HOUR : 1600 LST  
 CONDITION : NONE SPECIFIED

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

16 PT.		1	-	3	4	-	6	7-10	11-16	17-21	SPEED (KNOTS)					28-33	34-40	41-47	48-55	>56	TOTAL	Σ	MEAN WIND SPEED	
DIR.																								
N		.5		1.2		.8		.5		.1		.2		.0		.0		.0		.0		3.2		7.7
NNE		.5		1.7		2.1		1.2		.3		.1		.0		.0		.0		.0		5.8		8.6
NE		.5		3.0		2.6		.9		.4		.1		.0		.0		.0		.0		7.5		8.0
ENE		.8		2.8		6.5		1.8		.3		.0		.0		.0		.0		.0		12.3		8.2
E		.8		5.6		5.5		1.4		.1		.0		.0		.0		.0		.0		13.5		7.1
ESE		.5		1.4		2.3		.8		.0		.0		.0		.0		.0		.0		5.0		7.5
SE		.2		1.2		1.8		1.6		.0		.0		.0		.0		.0		.0		4.8		8.8
SSE		.1		.9		1.8		.9		.2		.1		.0		.0		.0		.0		4.1		9.5
S		.4		1.3		2.5		1.4		.2		.0		.0		.0		.0		.0		5.8		8.8
SSW		.1		1.2		3.7		5.1		.6		.0		.0		.0		.0		.0		10.6		10.8
SW		.2		1.6		4.8		2.6		.5		.2		.0		.0		.0		.0		9.9		9.8
WSW		.4		1.6		3.8		1.5		.2		.0		.0		.0		.0		.0		7.4		8.6
W		.2		1.8		1.9		.7		.2		.1		.0		.0		.0		.0		4.7		8.2
WNW		.2		.3		.9		.5		.1		.0		.0		.0		.0		.0		1.9		9.3
NW		.1		.2		.3		.2		.0		.0		.0		.0		.0		.0		.8		7.9
NNW		.3		.2		.2		.1		.0		.0		.0		.0		.0		.0		.8		5.1
VAR		.0		.0		.0		.0		.0		.0		.0		.0		.0		.0		.0		.0
CLM		.0		.0		.0		.0		.0		.0		.0		.0		.0		.0		1.9		.0
ALL		5.6		26.2		41.5		21.1		3.1		.6		.0		.0		.0		.0		103.0		8.4

TOTAL NO. OF OBS : 1300

NOTES :  
 \* = PERCENT < .05



# 1 - SURFACE WINDS

013750 : NORFOLK, VA  
 PERIOD OF RECORD : 1945-1986  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
 MONTH : JUL  
 HOUR : 1900 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

16 PT.	1	- 3	4	- 6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>=56	TOTAL	MEAN
DIR.														Σ	WIND SPEED
N	.3		.6		.7	.6	.0	.1	.0	.0	.0	.0	.0	2.3	8.5
NNE	.2		.5		.5	.3	.2	.0	.0	.0	.0	.0	.0	1.8	9.3
NE	.2		.8		.9	.5	.3	.2	.0	.0	.0	.0	.0	2.9	9.7
ENE	.6		2.7		1.8	.8	.2	.0	.0	.0	.0	.0	.0	6.1	7.1
E	2.5		5.8		2.6	.5	.0	.0	.0	.0	.0	.0	.0	11.5	5.3
ESE	.8		2.4		2.8	.3	.0	.0	.0	.0	.0	.0	.0	6.2	6.4
SE	1.1		4.6		2.5	.3	.0	.0	.0	.0	.0	.0	.0	8.5	6.0
SSE	.9		4.6		6.2	1.2	.1	.0	.0	.0	.0	.0	.0	13.0	7.3
S	.6		4.0		4.4	2.5	.1	.0	.0	.0	.0	.0	.0	11.6	8.0
SSW	.3		3.3		6.3	2.8	.4	.0	.0	.0	.0	.0	.0	13.2	8.8
SW	.7		2.9		4.7	1.2	.1	.0	.0	.0	.0	.0	.0	9.5	7.6
WSW	.6		2.5		.7	.8	.2	.0	.0	.0	.0	.0	.0	4.7	6.8
W	.2		1.1		.9	.3	.1	.0	.0	.1	.0	.0	.0	2.6	8.4
WNW	.2		.5		.3	.0	.0	.0	.0	.0	.0	.0	.0	.9	5.3
NW	.1		.2		.5	.2	.1	.0	.0	.0	.0	.0	.0	1.0	8.9
NNW	.2		.2		.0	.3	.0	.0	.0	.0	.0	.0	.0	.7	8.3
VAR	.0		.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLM	.0		.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	3.5	.0
ALL	9.4		36.7		35.8	12.6	1.6	.2	.0	.1	.0	.0	.0	100.0	7.1

TOTAL NO. OF OBS : 1300

NOTES :  
 \* = PERCENT < .05



# 1 - SURFACE WINDS

013750 : NORFOLK, VA  
 PERIOD OF RECORD : 1945-1986  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT

MONTH : JUL  
 HOUR : 2200 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

16 PT.		SPEED (KNOTS)																TOTAL %		MEAN WIND SPEED	
DIR.		1	- 3	4	- 6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>56							
N		.2		.4		.7	.5	.0	.1	.0	.0	.0	.0	.0	1.9	9.1					
NNE		.2		.2		.2	.5	.2	.2	.0	.0	.0	.0	.0	1.6	12.1					
NE		.2		.6		.5	.5	.2	.1	.0	.0	.0	.0	.0	2.0	9.7					
ENE		.3		1.2		1.2	.6	.1	.0	.0	.0	.0	.0	.0	3.3	7.6					
E		1.6		2.2		.8	.2	.1	.0	.0	.0	.0	.0	.0	4.9	5.2					
ESE		1.3		1.2		.6	.0	.0	.0	.0	.0	.0	.0	.0	3.1	4.4					
SE		2.2		2.9		1.2	.1	.0	.0	.0	.0	.0	.0	.0	6.3	4.5					
SSE		3.7		6.2		2.4	.5	.0	.0	.0	.0	.0	.0	.0	12.7	5.1					
S		2.8		5.7		7.2	2.5	.1	.0	.0	.0	.0	.0	.0	18.3	7.1					
SSW		.6		3.4		8.6	4.9	.2	.0	.0	.0	.0	.0	.0	17.6	9.1					
SW		.5		2.7		3.9	1.1	.0	.0	.0	.0	.0	.0	.0	8.2	7.4					
WSW		.5		1.9		1.9	.4	.1	.0	.0	.0	.0	.0	.0	4.9	6.9					
W		.6		1.2		.5	.5	.2	.0	.0	.0	.0	.0	.0	2.9	6.9					
WNW		.3		.2		.2	.1	.0	.0	.0	.0	.0	.0	.0	.8	5.3					
NW		.0		.2		.1	.2	.0	.0	.0	.0	.0	.0	.0	.4	9.0					
NNW		.2		.7		.2	.2	.0	.0	.0	.0	.0	.0	.0	1.3	6.6					
VAR		.0		.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0					
CLM		.0		.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	9.9	.0					
ALL	15.3	30.8	30.0	12.6	1.1	.3	.0	.0	.0	.0	.0	.0	.0	.0	100.0	6.3					

TOTAL NO. OF OBS : 1298

NOTES :  
 \* = PERCENT < .05



# 1 - SURFACE WINDS

013750 : NORFOLK, VA  
 PERIOD OF RECORD : 1945-1986  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
 MONTH : JUL  
 HOUR : ALL

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

16 PT.	1	3	4	6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>56	TOTAL	MEAN
DIR.	1	3	4	6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>56	%	WIND SPEED
N	.6	1.4	1.3	1.3	1.3	.8	.1	.0*	.0	.0	.0	.0	.0	4.2	7.6
NNE	.3	1.3	1.9	1.9	1.9	1.0	.2	.0*	.0	.0	.0	.0	.0	4.8	8.7
NE	.3	1.4	1.8	1.8	1.8	.9	.4	.1	.0	.0	.0	.0	.0	4.8	9.0
ENE	.5	1.7	2.8	2.8	2.8	1.0	.2	.0*	.0	.0	.0	.0	.0	6.1	8.1
E	1.2	2.4	1.8	1.8	1.8	.6	.0*	.0	.0	.0	.0	.0	.0	6.0	6.2
ESE	.6	.9	.9	.9	.9	.2	.0	.0	.0	.0	.0	.0	.0	2.7	6.0
SE	.8	1.6	1.0	1.0	1.0	.4	.0*	.0	.0	.0	.0	.0	.0	3.8	6.1
SSE	1.3	2.2	1.7	1.7	1.7	.4	.0*	.0	.0	.0	.0	.0	.0	5.7	6.1
S	1.3	2.9	3.1	3.1	3.1	1.3	.1	.0	.0	.0	.0	.0	.0	8.6	7.2
SSW	.7	3.5	6.5	6.5	6.5	3.7	.2	.0*	.0	.0	.0	.0	.0	14.7	8.7
SW	.9	3.3	5.9	5.9	5.9	2.6	.3	.0*	.0	.0	.0	.0	.0	13.0	8.3
WSW	.7	2.8	3.2	3.2	3.2	1.3	.1	.0	.0	.0	.0	.0	.0	8.1	7.5
W	.5	2.4	2.0	2.0	2.0	.7	.1	.0*	.0	.0*	.0	.0	.0	5.8	7.1
WNW	.3	.7	.7	.7	.7	.2	.0*	.0*	.0	.0	.0	.0	.0	2.0	6.9
NW	.2	.6	.5	.5	.5	.2	.0*	.0	.0	.0	.0	.0	.0	1.5	6.6
NNW	.3	.7	.6	.6	.6	.3	.0	.0	.0	.0	.0	.0	.0	1.9	6.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.2	.0
ALL	10.6	30.0	35.8	35.8	35.8	15.5	1.8	.2	.0	.0*	.0	.0	.0	100.0	7.2

TOTAL NO. OF OBS : 10394

NOTES :  
 \* = PERCENT < .05



## 2 - CEILING VS VISIBILITY

013750 : NORFOLK, VA  
PERIOD OF RECORD : 1945-1986  
CLASS : ALL WEATHER  
CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : JUL  
HOUR : 0100 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)									
	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=1	1/2	>=1/4
UNLIMIT	8.4	53.0	58.9	62.1	63.7	64.1	64.3	64.3	64.3	64.3
>=20000	8.6	56.8	63.5	67.0	68.9	69.2	69.4	69.5	69.5	69.5
>=18000	8.6	56.8	63.5	67.0	68.9	69.2	69.4	69.5	69.5	69.5
>=16000	8.6	56.8	63.5	67.0	68.9	69.2	69.4	69.5	69.5	69.5
>=14000	8.7	57.2	63.9	67.4	69.2	69.6	69.8	69.9	69.9	69.9
>=12000	9.0	59.1	65.9	69.5	71.5	71.9	72.0	72.1	72.1	72.1
>=10000	9.3	63.5	71.1	74.8	77.2	77.6	77.9	78.0	78.0	78.0
>= 9000	9.3	63.9	71.6	75.3	77.7	78.2	78.5	78.6	78.6	78.6
>= 8000	9.5	67.7	76.0	79.9	82.5	82.9	83.2	83.3	83.3	83.3
>= 7000	9.6	68.5	77.2	81.1	83.6	84.1	84.4	84.5	84.5	84.5
>= 6000	9.6	69.1	77.8	81.8	84.3	84.8	85.1	85.2	85.2	85.2
>= 5000	9.8	70.4	79.2	83.3	86.0	86.5	86.8	86.9	86.9	86.9
>= 4500	9.8	70.6	79.4	83.6	86.2	86.7	87.0	87.1	87.1	87.1
>= 4000	10.0	71.9	80.7	85.0	87.7	88.1	88.5	88.6	88.6	88.6
>= 3500	10.0	72.4	81.3	85.6	88.3	88.8	89.1	89.2	89.2	89.2
>= 3000	10.4	74.6	83.8	88.3	91.1	91.5	91.9	92.0	92.1	92.1
>= 2500	10.4	74.9	84.2	88.7	91.5	91.9	92.3	92.4	92.5	92.5
>= 2000	10.4	76.0	85.4	90.0	92.8	93.4	93.6	93.8	93.8	93.8
>= 1800	10.4	76.0	85.5	90.1	92.9	93.4	93.7	93.8	93.9	93.9
>= 1500	10.5	77.1	86.6	91.5	94.2	94.7	95.0	95.2	95.3	95.3
>= 1200	10.5	77.9	87.4	92.3	95.1	95.6	95.9	96.0	96.1	96.1
>= 1000	10.5	78.2	88.0	93.0	95.8	96.3	96.6	96.8	96.8	96.8
>= 900	10.5	78.6	88.4	93.4	96.4	96.8	97.2	97.3	97.4	97.4
>= 800	10.5	79.1	89.0	94.2	97.2	97.8	98.1	98.3	98.3	98.3
>= 700	10.5	79.4	89.3	94.5	97.7	98.3	98.7	98.8	98.9	98.9
>= 600	10.5	79.6	89.7	94.9	98.1	98.7	99.1	99.2	99.3	99.3
>= 500	10.5	79.7	89.8	95.0	98.3	99.0	99.4	99.5	99.6	99.6
>= 400	10.5	79.7	89.8	95.0	98.5	99.1	99.5	99.7	99.8	99.8
>= 300	10.5	79.7	89.8	95.0	98.5	99.1	99.5	99.7	99.8	99.8
>= 200	10.5	79.7	89.8	95.0	98.5	99.1	99.6	99.8	99.9	99.9
>= 100	10.5	79.7	89.8	95.0	98.5	99.1	99.6	99.8	99.9	99.9
>= 0	10.5	79.7	89.8	95.0	98.5	99.1	99.6	99.8	99.9	99.9

TOTAL NO. OF OBS : 1265



## 2 - CEILING VS VISIBILITY

013750 : NORFOLK, VA  
PERIOD OF RECORD : 1945-1986  
CLASS : ALL WEATHER  
CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : JUL  
HOUR : 0400 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)									
	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=1	1/4	>=1/4
UNLIMIT	6.9	47.1	53.5	57.3	60.0	60.2	60.8	61.0	61.1	61.1
>=20000	7.5	51.3	58.2	62.6	65.9	66.2	67.0	67.3	67.4	67.4
>=18000	7.5	51.3	58.3	62.7	65.9	66.2	67.1	67.3	67.4	67.5
>=16000	7.5	51.3	58.3	62.7	65.9	66.2	67.1	67.3	67.4	67.5
>=14000	7.6	51.6	58.7	63.1	66.3	66.6	67.5	67.7	67.9	67.9
>=12000	8.1	53.5	60.6	65.1	68.4	68.8	69.6	69.9	70.0	70.1
>=10000	8.5	58.6	66.2	71.2	74.9	75.3	76.1	76.5	76.6	76.6
>= 9000	8.5	58.9	66.5	71.5	75.2	75.6	76.5	76.8	76.9	76.9
>= 8000	8.6	62.4	70.2	75.4	79.1	79.5	80.5	80.8	80.9	80.9
>= 7000	8.7	63.5	71.3	76.6	80.3	80.7	81.6	81.9	82.0	82.1
>= 6000	8.7	63.8	71.7	77.0	80.7	81.1	82.1	82.4	82.5	82.6
>= 5000	8.7	64.4	72.5	77.9	81.6	82.0	83.0	83.4	83.5	83.5
>= 4500	8.7	64.7	72.8	78.2	81.9	82.3	83.3	83.6	83.8	83.8
>= 4000	8.8	66.0	74.5	80.0	83.8	84.1	85.2	85.5	85.6	85.6
>= 3500	8.9	66.7	75.2	80.7	84.5	84.9	85.9	86.2	86.3	86.3
>= 3000	8.9	68.4	77.7	83.4	87.2	87.6	88.6	88.9	89.0	89.1
>= 2500	8.9	69.1	78.4	84.1	88.0	88.4	89.4	89.7	89.8	89.9
>= 2000	8.9	70.2	79.7	85.4	89.4	89.8	90.8	91.1	91.2	91.3
>= 1800	9.0	70.3	79.9	85.6	89.6	90.0	91.0	91.3	91.4	91.4
>= 1500	9.2	71.1	80.8	86.6	90.7	91.1	92.1	92.4	92.5	92.5
>= 1200	9.3	71.6	81.4	87.1	91.3	91.8	92.8	93.1	93.2	93.2
>= 1000	9.3	72.4	82.7	88.4	92.5	93.0	94.1	94.6	94.7	94.7
>= 900	9.4	72.8	83.2	88.9	93.2	93.8	94.9	95.4	95.5	95.5
>= 800	9.4	73.1	83.6	89.4	93.8	94.3	95.4	95.9	96.0	96.1
>= 700	9.5	73.7	84.3	90.2	94.7	95.3	96.4	96.9	97.0	97.0
>= 600	9.5	73.9	84.8	91.1	95.8	96.3	97.4	97.9	98.0	98.0
>= 500	9.5	74.0	85.0	91.4	96.2	96.7	97.8	98.3	98.4	98.5
>= 400	9.5	74.2	85.2	91.7	96.5	97.2	98.3	98.8	98.9	99.1
>= 300	9.5	74.3	85.4	91.8	96.7	97.4	98.6	99.1	99.2	99.4
>= 200	9.5	74.3	85.4	91.8	96.7	97.4	98.6	99.3	99.4	99.5
>= 100	9.5	74.3	85.4	91.8	96.7	97.4	98.6	99.3	99.4	99.5
>= 0	9.5	74.3	85.4	91.8	96.7	97.4	98.6	99.3	99.4	99.5

TOTAL NO. OF OBS : 1274



## 2 - CEILING VS VISIBILITY

013750 : NORFOLK, VA  
PERIOD OF RECORD : 1945-1986  
CLASS : ALL WEATHER  
CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : JUL  
HOUR : 0700 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)									
	>=10	>=6	>=5	>=4	>=3	>=2 1/2	>=2	>=1 1/2	>=1 1/4	>=1
UNLIMIT	4.9	34.3	41.4	46.5	51.9	52.9	53.9	54.2	54.3	54.4
>=20000	5.9	37.5	44.9	50.7	57.0	58.1	59.4	59.8	59.9	60.0
>=18000	6.0	37.7	45.1	50.9	57.2	58.4	59.6	60.0	60.1	60.3
>=16000	6.0	37.8	45.2	51.0	57.3	58.4	59.7	60.1	60.2	60.3
>=14000	6.1	38.2	45.6	51.4	57.7	58.8	60.1	60.5	60.6	60.7
>=12000	6.4	39.8	47.8	53.8	60.2	61.4	62.7	63.1	63.2	63.3
>=10000	6.8	44.4	53.1	59.7	66.5	68.1	69.6	70.1	70.3	70.5
>= 9000	6.8	44.7	53.7	60.3	67.1	68.7	70.1	70.6	70.7	70.9
>= 8000	7.1	48.8	58.3	65.7	72.9	74.5	76.0	76.5	76.6	76.7
>= 7000	7.1	49.8	59.5	66.9	74.3	75.9	77.5	77.9	78.0	78.2
>= 6000	7.1	50.3	60.1	67.5	74.9	76.4	78.0	78.5	78.6	78.7
>= 5000	7.2	50.9	60.9	68.3	75.9	77.5	79.0	79.5	79.6	79.7
>= 4500	7.3	51.0	61.0	68.4	76.0	77.5	79.1	79.7	79.7	79.9
>= 4000	7.4	51.9	61.9	69.7	77.4	79.0	80.6	81.1	81.2	81.4
>= 3500	7.4	52.1	62.3	70.1	77.8	79.5	81.1	81.6	81.7	81.9
>= 3000	7.5	53.7	64.1	72.0	80.2	81.9	83.7	84.2	84.3	84.4
>= 2500	7.5	54.0	64.7	72.7	81.1	82.9	84.7	85.4	85.5	85.6
>= 2000	7.7	55.1	66.1	74.2	82.6	84.4	86.3	87.0	87.1	87.3
>= 1800	7.7	55.5	66.5	74.8	83.3	85.1	87.0	87.7	87.8	88.0
>= 1500	7.8	56.6	67.6	76.1	84.7	86.6	88.6	89.4	89.5	89.7
>= 1200	7.8	57.3	68.9	77.4	86.2	88.1	90.1	90.9	91.0	91.2
>= 1000	7.9	58.5	70.1	78.8	87.7	89.6	91.8	92.6	92.7	93.0
>= 900	7.9	59.1	70.9	79.7	88.7	90.7	92.8	93.6	93.7	94.0
>= 800	7.9	59.5	71.5	80.4	89.7	91.8	94.0	95.0	95.1	95.4
>= 700	8.0	60.1	72.2	81.2	90.7	92.8	95.0	96.1	96.2	96.5
>= 600	8.0	60.5	72.6	81.9	91.3	93.6	95.8	97.0	97.1	97.6
>= 500	8.0	61.0	73.2	82.6	92.5	94.7	97.0	98.2	98.3	98.7
>= 400	8.0	61.0	73.3	82.7	92.5	94.9	97.2	98.4	98.4	99.0
>= 300	8.0	61.0	73.4	82.8	92.6	95.0	97.3	98.6	98.7	99.3
>= 200	8.0	61.0	73.4	82.8	92.6	95.0	97.3	98.6	98.7	99.4
>= 100	8.0	61.0	73.4	82.8	92.6	95.0	97.3	98.6	98.7	99.4
>= 0	8.0	61.0	73.4	82.8	92.6	95.0	97.3	98.6	98.7	99.4

TOTAL NO. OF OBS : 1273



## 2 - CEILING VS VISIBILITY

013750 : NORFOLK, VA  
PERIOD OF RECORD : 1945-1986  
CLASS : ALL WEATHER  
CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : JUL  
HOUR : 1000 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)									
	>=10	>=6	>=5	>=4	>=3	>=2 1/2	>=2	>=1 1/2	>=1	>=3/4
UNLIMIT	7.2	41.5	48.0	52.8	55.3	55.6	56.1	56.1	56.1	56.1
>=20000	8.1	45.6	52.6	58.0	60.9	61.2	61.7	61.7	61.7	61.7
>=18000	8.3	45.7	52.8	58.1	61.0	61.4	61.8	61.8	61.8	61.8
>=16000	8.3	45.8	52.8	58.2	61.1	61.4	61.9	61.9	61.9	61.9
>=14000	8.9	47.1	54.2	59.5	62.5	62.9	63.3	63.3	63.3	63.3
>=12000	9.3	49.1	56.3	61.8	65.0	65.4	65.9	65.9	65.9	65.9
>=10000	9.6	53.2	61.3	67.1	70.4	70.9	71.6	71.6	71.6	71.6
>= 9000	9.6	53.3	61.4	67.4	70.7	71.1	71.8	71.8	71.8	71.8
>= 8000	9.7	56.2	65.4	71.6	75.0	75.5	76.3	76.3	76.3	76.3
>= 7000	9.7	57.0	66.2	72.4	75.9	76.3	77.1	77.1	77.2	77.2
>= 6000	9.7	57.5	66.6	72.9	76.3	76.8	77.6	77.7	77.7	77.7
>= 5000	9.9	58.1	67.4	74.0	77.5	78.0	78.8	78.9	78.9	78.9
>= 4500	9.9	58.4	67.6	74.2	77.8	78.2	79.0	79.1	79.1	79.1
>= 4000	10.0	59.2	68.5	75.3	78.9	79.5	80.3	80.4	80.4	80.4
>= 3500	10.1	59.4	68.7	75.6	79.3	79.8	80.6	80.7	80.7	80.7
>= 3000	10.4	61.7	71.3	78.4	82.3	83.0	83.8	83.8	83.8	83.8
>= 2500	10.7	63.1	72.9	80.1	84.0	84.8	85.6	85.7	85.8	85.8
>= 2000	11.2	65.5	75.4	82.9	86.8	87.5	88.4	88.5	88.6	88.6
>= 1800	11.3	65.8	75.8	83.3	87.2	88.0	88.9	89.0	89.0	89.0
>= 1500	11.8	67.7	78.4	86.3	90.4	91.2	92.1	92.2	92.3	92.3
>= 1200	12.2	69.6	80.7	89.1	93.3	94.2	95.1	95.2	95.3	95.3
>= 1000	12.4	70.7	81.9	90.4	94.8	95.7	96.8	96.8	96.8	96.8
>= 900	12.4	71.1	82.3	91.0	95.6	96.6	97.6	97.7	97.8	97.8
>= 800	12.4	71.6	82.9	91.6	96.3	97.4	98.4	98.6	98.7	98.7
>= 700	12.4	71.8	83.0	91.9	96.5	97.6	98.7	98.8	99.0	99.1
>= 600	12.4	72.1	83.4	92.3	97.0	98.1	99.2	99.4	99.5	99.6
>= 500	12.4	72.1	83.5	92.4	97.1	98.3	99.4	99.5	99.7	99.8
>= 400	12.4	72.1	83.5	92.4	97.1	98.3	99.4	99.5	99.7	99.8
>= 300	12.4	72.1	83.5	92.4	97.1	98.3	99.4	99.6	99.8	99.9
>= 200	12.4	72.1	83.5	92.4	97.1	98.3	99.4	99.6	99.8	99.9
>= 100	12.4	72.1	83.5	92.4	97.1	98.3	99.4	99.6	99.8	99.9
>= 0	12.4	72.1	83.5	92.4	97.1	98.3	99.4	99.6	99.9	100.0

TOTAL NO. OF OBS : 1268



## 2 - CEILING VS VISIBILITY

013750 : NORFOLK, VA  
PERIOD OF RECORD : 1945-1986  
CLASS : ALL WEATHER  
CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : JUL  
HOUR : 1300 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)															
	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=1	1/2	>=1	1/4	>=1	>=3/4	>=5/8	>=1/2	>=5/16
UNLIMIT	11.0	46.0	50.5	53.6	54.8	55.1	55.4	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5
>=20000	12.7	50.8	55.9	59.5	61.2	61.5	61.8	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9
>=18000	12.7	50.8	55.9	59.5	61.2	61.5	61.8	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9
>=16000	12.8	50.8	55.9	59.5	61.3	61.6	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9	61.9
>=14000	13.6	52.1	57.4	61.1	62.9	63.2	63.4	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6
>=12000	13.8	53.6	59.2	63.0	65.0	65.3	65.5	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7
>=10000	14.0	57.0	62.8	66.9	69.2	69.5	69.8	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
>=8000	14.0	57.2	63.1	67.2	69.6	69.9	70.2	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4
>=7000	14.2	61.1	67.4	71.7	74.1	74.5	74.7	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9
>=6000	14.2	61.6	67.9	72.5	74.9	75.3	75.5	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7
>=5000	14.3	62.0	68.4	73.0	75.4	75.7	76.0	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2
>=4500	14.4	62.8	69.4	74.1	76.5	76.9	77.1	77.3	77.3	77.4	77.4	77.4	77.4	77.4	77.4	77.4
>=4000	14.6	63.1	69.8	74.5	76.9	77.3	77.5	77.7	77.7	77.8	77.8	77.8	77.8	77.8	77.8	77.8
>=3500	15.0	64.4	71.3	76.1	78.6	78.9	79.2	79.5	79.5	79.6	79.6	79.6	79.6	79.6	79.6	79.6
>=3000	15.2	65.1	72.3	77.1	79.6	79.9	80.2	80.4	80.4	80.6	80.6	80.6	80.6	80.6	80.6	80.6
>=2500	15.9	68.3	76.5	81.7	84.6	85.2	85.6	85.8	85.8	86.0	86.0	86.0	86.0	86.0	86.0	86.0
>=2000	16.6	70.6	79.1	84.4	87.5	88.0	88.4	88.7	88.7	88.8	88.8	88.8	88.8	88.8	88.8	88.8
>=1800	17.2	73.5	82.4	88.2	91.4	92.0	92.4	92.7	92.7	92.9	92.9	92.9	92.9	92.9	92.9	92.9
>=1500	17.3	75.1	84.4	90.6	94.1	94.7	95.3	95.7	95.7	95.8	95.8	95.8	95.8	95.8	95.8	95.8
>=1200	17.4	76.1	85.6	91.9	95.5	96.1	96.7	97.1	97.1	97.3	97.3	97.3	97.3	97.3	97.3	97.3
>=1000	17.5	76.3	86.0	92.4	96.2	96.9	97.5	97.9	97.9	98.2	98.2	98.2	98.2	98.2	98.2	98.2
>=900	17.5	76.4	86.2	92.6	96.4	97.1	97.8	98.2	98.2	98.4	98.4	98.4	98.4	98.4	98.4	98.4
>=800	17.5	76.5	86.4	92.8	96.6	97.4	98.2	98.6	98.6	99.0	99.0	99.0	99.0	99.0	99.0	99.0
>=700	17.5	76.5	86.4	92.9	96.8	97.6	98.3	98.8	98.8	99.1	99.2	99.2	99.2	99.2	99.2	99.2
>=600	17.6	76.9	86.8	93.2	97.2	98.0	98.7	99.2	99.2	99.5	99.5	99.5	99.5	99.5	99.5	99.5
>=500	17.6	76.9	86.8	93.2	97.3	98.1	98.8	99.3	99.3	99.6	99.6	99.6	99.6	99.6	99.6	99.6
>=400	17.6	76.9	86.8	93.2	97.3	98.1	98.8	99.3	99.3	99.6	99.6	99.6	99.6	99.6	99.6	99.6
>=300	17.6	76.9	86.8	93.2	97.3	98.1	98.8	99.3	99.3	99.6	99.6	99.6	99.6	99.6	99.6	99.6
>=200	17.6	76.9	86.8	93.2	97.3	98.1	98.8	99.3	99.3	99.6	99.6	99.6	99.6	99.6	99.6	99.6
>=100	17.6	76.9	86.8	93.2	97.3	98.1	98.8	99.3	99.3	99.6	99.6	99.6	99.6	99.6	99.6	99.6
>=0	17.6	76.9	86.8	93.2	97.3	98.1	98.8	99.3	99.3	99.6	99.6	99.6	99.6	99.6	99.6	99.6

TOTAL NO. OF OBS : 1253



## 2 - CEILING VS VISIBILITY

013750 : NORFOLK, VA  
PERIOD OF RECORD : 1945-1986  
CLASS : ALL WEATHER  
CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : JUL  
HOUR : 1600 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)										PERCENTAGE FREQUENCY OF OCCURRENCE									
	>=10	>=6	>=5	>=4	>=3	>=2 1/2	>=2	>=1 1/2	>=1	>=3/4	>=5/8	>=1/2	>=5/16	>=1/4	>=0					
UNLIMIT	12.7	46.9	51.6	54.4	55.5	55.8	55.8	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9					
>=20000	14.5	52.0	57.1	60.3	61.8	62.0	62.1	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3					
>=18000	14.6	52.1	57.3	60.5	62.0	62.2	62.3	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5					
>=16000	14.7	52.2	57.4	60.6	62.1	62.3	62.4	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6					
>=14000	14.7	52.6	57.8	61.0	62.5	62.8	62.9	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1					
>=12000	14.9	54.5	59.8	63.1	64.7	64.9	65.0	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3					
>=10000	15.5	58.3	64.0	67.7	69.5	69.7	69.8	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0					
>=9000	15.5	58.6	64.3	68.3	70.0	70.3	70.4	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6					
>=8000	15.8	61.7	68.1	72.4	74.3	74.5	74.7	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9					
>=7000	15.9	62.4	69.0	73.4	75.3	75.5	75.7	75.9	75.9	75.9	75.9	75.9	75.9	75.9	75.9					
>=6000	16.2	62.8	69.6	73.9	75.9	76.2	76.3	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6					
>=5000	16.4	63.9	70.8	75.5	77.5	77.8	77.9	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2					
>=4500	16.5	64.2	71.2	75.9	77.9	78.2	78.3	78.6	78.6	78.6	78.6	78.6	78.6	78.6	78.6					
>=4000	16.7	65.7	73.0	77.9	80.0	80.2	80.4	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6					
>=3500	16.9	66.9	74.2	79.2	81.3	81.5	81.7	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9					
>=3000	17.3	69.6	77.7	82.9	85.7	86.1	86.3	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5					
>=2500	17.5	70.9	79.1	84.8	87.7	88.0	88.4	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6					
>=2000	17.9	73.6	82.4	88.5	92.0	92.4	92.7	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9					
>=1800	17.9	73.7	82.5	88.6	92.0	92.4	92.7	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0					
>=1500	18.2	74.7	83.8	90.1	93.9	94.4	95.0	95.3	95.5	95.5	95.5	95.5	95.5	95.5	95.5					
>=1200	18.2	75.0	84.3	90.7	94.7	95.5	96.0	96.3	96.6	96.6	96.6	96.6	96.6	96.6	96.6					
>=1000	18.2	75.5	84.8	91.2	95.2	96.2	96.8	97.1	97.5	97.5	97.5	97.5	97.5	97.5	97.5					
>=900	18.2	75.5	84.9	91.5	95.5	96.5	97.1	97.5	97.8	97.8	97.8	97.8	97.8	97.8	97.8					
>=800	18.3	75.7	85.3	91.9	95.9	96.9	97.8	98.2	98.6	98.6	98.6	98.7	98.7	98.7	98.7					
>=700	18.3	75.9	85.6	92.1	96.2	97.1	98.1	98.5	99.1	99.1	99.1	99.2	99.2	99.2	99.2					
>=600	18.3	76.0	85.8	92.4	96.4	97.4	98.4	98.8	99.4	99.4	99.4	99.6	99.6	99.6	99.6					
>=500	18.3	76.0	85.8	92.4	96.4	97.4	98.5	98.9	99.5	99.5	99.5	99.8	99.8	99.8	99.8					
>=400	18.3	76.0	85.8	92.4	96.4	97.4	98.5	98.9	99.5	99.5	99.5	99.8	99.8	99.8	99.8					
>=300	18.3	76.0	85.8	92.4	96.4	97.4	98.5	98.9	99.5	99.5	99.5	99.8	99.8	99.8	99.8					
>=200	18.3	76.0	85.8	92.4	96.4	97.4	98.5	98.9	99.5	99.5	99.5	99.8	99.8	99.8	99.8					
>=100	18.3	76.0	85.8	92.4	96.4	97.4	98.5	98.9	99.5	99.5	99.5	99.8	99.8	99.8	99.8					
>=0	18.3	76.0	85.8	92.4	96.4	97.4	98.5	98.9	99.5	99.6	99.6	99.9	99.9	100.0	100.0					

TOTAL NO. OF OBS : 1255



## 2 - CEILING VS VISIBILITY

013750 : NORFOLK, VA  
PERIOD OF RECORD : 1945-1986  
CLASS : ALL WEATHER  
CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : JUL  
HOUR : 1900 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)									
	>=10	>=6	>=5	>=4	>=3	>=2 1/2	>=2	>=1 1/2	>=1 1/4	>=1
UNLIMIT	8.6	43.6	48.7	51.9	53.5	53.7	53.9	53.9	53.9	53.9
>=20000	10.1	48.9	54.9	58.8	60.6	61.1	61.4	61.4	61.4	61.4
>=19000	10.2	49.1	55.2	59.1	60.9	61.4	61.6	61.6	61.6	61.6
>=16000	10.2	49.1	55.2	59.1	60.9	61.4	61.6	61.6	61.6	61.6
>=14000	10.5	49.8	56.0	60.1	61.9	62.4	62.7	62.7	62.7	62.7
>=12000	11.0	52.7	59.3	63.5	65.4	65.9	66.2	66.2	66.2	66.2
>=10000	11.1	57.0	64.3	68.9	70.9	71.4	71.7	71.7	71.7	71.7
>=9000	11.2	57.5	64.9	69.5	71.6	72.0	72.4	72.4	72.4	72.4
>=8000	11.6	62.3	71.0	76.1	78.3	79.0	79.4	79.4	79.4	79.4
>=7000	11.7	63.6	72.4	77.6	79.8	80.4	80.9	80.9	80.9	80.9
>=6000	12.0	64.1	73.1	78.4	80.6	81.3	81.8	81.8	81.8	81.8
>=5000	12.1	65.4	74.7	80.3	82.5	83.2	83.8	83.8	83.8	83.8
>=4500	12.1	65.6	74.9	80.5	82.8	83.5	84.0	84.1	84.1	84.1
>=4000	12.2	66.7	76.1	81.7	84.1	85.0	85.6	85.7	85.7	85.7
>=3500	12.3	67.2	76.9	82.7	85.1	86.0	86.6	86.7	86.8	86.8
>=3000	12.4	69.2	79.5	85.6	88.3	89.2	90.0	90.1	90.3	90.3
>=2500	12.4	70.0	80.4	86.6	89.4	90.3	91.2	91.4	91.5	91.5
>=2000	12.4	71.1	81.7	88.2	91.4	92.3	93.2	93.3	93.5	93.6
>=1800	12.4	71.1	81.7	88.3	91.4	92.3	93.2	93.4	93.6	93.6
>=1500	12.5	71.7	82.5	89.1	92.3	93.3	94.4	94.6	94.8	94.9
>=1200	12.5	71.9	82.8	89.7	93.2	94.2	95.3	95.5	95.7	95.8
>=1000	12.5	72.5	83.4	90.6	94.3	95.4	96.6	96.8	97.1	97.1
>=900	12.5	72.5	83.4	90.7	94.5	95.6	96.8	97.1	97.4	97.5
>=800	12.5	72.8	83.9	91.4	95.3	96.5	98.0	98.4	98.7	98.8
>=700	12.5	72.9	84.0	91.6	95.5	96.7	98.2	98.6	98.9	99.0
>=600	12.5	72.9	84.0	91.6	95.6	96.8	98.4	98.8	99.2	99.3
>=500	12.5	72.9	84.1	91.8	95.8	97.0	98.7	99.1	99.6	99.8
>=400	12.5	72.9	84.1	91.8	95.8	97.0	98.7	99.1	99.7	99.9
>=300	12.5	72.9	84.1	91.8	95.8	97.1	98.7	99.1	99.7	99.9
>=200	12.5	72.9	84.1	91.8	95.8	97.1	98.7	99.1	99.7	99.9
>=100	12.5	72.9	84.1	91.8	95.8	97.1	98.7	99.1	99.7	99.9
>=0	12.5	72.9	84.1	91.8	95.8	97.1	98.7	99.1	99.7	99.9

TOTAL NO. OF OBS : 1227



## 2 - CEILING VS VISIBILITY

013750 : NORFOLK, VA  
PERIOD OF RECORD : 1945-1986  
CLASS : ALL WEATHER  
CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : JUL  
HOUR : 2200 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)															
	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=2	1/2	>=1	1/4	>=1	3/4	>=5/8	>=1/2	>=5/16
UNLIMIT	7.9	54.4	58.8	61.1	62.0	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4	62.4
>=20000	8.2	58.8	64.0	67.1	68.3	68.7	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9
>=18000	8.2	58.8	64.0	67.1	68.3	68.7	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9	68.9
>=16000	8.2	58.9	64.2	67.3	68.5	68.9	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1
>=14000	8.3	59.6	64.8	67.9	69.1	69.5	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8
>=12000	8.6	62.0	67.4	70.5	71.7	72.1	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3	72.3
>=10000	8.8	65.8	71.5	74.7	76.1	76.6	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8	76.8
>=9000	8.8	66.0	71.8	75.1	76.5	77.0	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2
>=8000	9.0	69.8	76.1	79.6	81.1	81.6	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9
>=7000	9.0	70.8	77.4	80.9	82.5	83.0	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2	83.2
>=6000	9.0	71.3	77.9	81.4	83.0	83.5	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7
>=5000	9.4	72.5	79.4	82.9	84.6	85.1	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3
>=4500	9.4	72.7	79.6	83.1	84.8	85.3	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5
>=4000	9.6	74.1	81.2	84.8	86.5	87.0	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2
>=3500	9.6	74.9	82.2	85.8	87.5	87.9	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2
>=3000	9.7	77.0	84.7	88.6	90.4	90.9	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2
>=2500	9.8	77.9	85.7	89.7	91.7	92.2	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5
>=2000	9.8	79.0	86.7	90.7	92.9	93.4	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7
>=1800	9.8	79.0	86.7	90.7	92.9	93.4	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7
>=1500	9.8	79.5	87.5	91.6	93.8	94.3	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6
>=1200	9.9	80.1	88.3	92.4	94.8	95.3	95.7	95.7	95.7	95.8	95.8	95.8	95.8	95.8	95.8	95.8
>=1000	9.9	81.1	89.5	93.8	96.4	96.9	97.3	97.3	97.3	97.4	97.4	97.4	97.4	97.4	97.4	97.4
>=900	9.9	81.1	89.8	94.1	96.6	97.1	97.5	97.5	97.5	97.6	97.6	97.6	97.6	97.6	97.6	97.6
>=800	10.0	81.4	90.0	94.3	97.0	97.7	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
>=700	10.0	81.8	90.4	94.8	97.5	98.2	98.6	98.6	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7
>=600	10.0	82.1	90.7	95.1	97.9	98.6	99.2	99.2	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3
>=500	10.0	82.2	90.8	95.3	98.2	98.8	99.5	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6
>=400	10.0	82.2	90.8	95.3	98.2	98.8	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7
>=300	10.0	82.2	90.8	95.3	98.2	98.8	99.6	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7
>=200	10.0	82.2	90.8	95.3	98.2	98.9	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8
>=100	10.0	82.2	90.8	95.3	98.2	98.9	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8
>=0	10.0	82.2	90.8	95.3	98.2	98.9	99.7	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8

TOTAL NO. OF OBS : 1251



# 2 - CEILING VS VISIBILITY

013750 : NORFOLK, VA  
 PERIOD OF RECORD : 1945-1986  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
 MONTH : JUL  
 HOUR : ALL

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)															
	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=1	1/2	>=1	1/4	>=1	>=3/4	>=5/8	>=1/2	>=5/16
UNLIMIT	8.4	45.8	51.4	54.9	57.1	57.5	57.8	57.9	57.9	57.9	58.0	58.0	58.0	58.0	58.0	58.0
>=20000	9.4	50.2	56.4	60.5	63.1	63.5	64.0	64.1	64.1	64.1	64.1	64.1	64.2	64.2	64.2	64.2
>=18000	9.5	50.3	56.5	60.6	63.2	63.6	64.1	64.2	64.2	64.3	64.3	64.3	64.3	64.3	64.3	64.3
>=16000	9.5	50.3	56.5	60.7	63.2	63.7	64.1	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.4	64.4
>=14000	9.8	51.0	57.3	61.4	64.0	64.5	64.9	65.1	65.1	65.1	65.1	65.1	65.2	65.2	65.2	65.2
>=12000	10.1	53.0	59.5	63.8	66.5	67.0	67.4	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.7
>=10000	10.4	57.2	64.3	68.9	71.8	72.4	72.9	73.1	73.1	73.1	73.1	73.2	73.2	73.2	73.2	73.2
>= 9000	10.4	57.5	64.6	69.3	72.3	72.8	73.4	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.7
>= 8000	10.7	61.2	69.0	74.0	77.2	77.7	78.3	78.5	78.5	78.6	78.6	78.6	78.6	78.6	78.6	78.6
>= 7000	10.7	62.1	70.1	75.2	78.3	78.9	79.5	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.8	79.8
>= 6000	10.8	62.6	70.6	75.7	78.9	79.5	80.1	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.4	80.4
>= 5000	11.0	63.5	71.8	77.0	80.3	80.8	81.5	81.6	81.7	81.7	81.7	81.7	81.7	81.7	81.8	81.8
>= 4500	11.0	63.7	72.0	77.3	80.5	81.1	81.7	81.9	81.9	82.0	82.0	82.0	82.0	82.0	82.0	82.1
>= 4000	11.2	65.0	73.4	78.8	82.1	82.7	83.4	83.5	83.6	83.6	83.6	83.7	83.7	83.7	83.7	83.7
>= 3500	11.3	65.6	74.1	79.6	82.9	83.5	84.2	84.3	84.4	84.4	84.4	84.5	84.5	84.5	84.5	84.5
>= 3000	11.5	67.8	76.9	82.6	86.2	86.9	87.6	87.8	87.8	87.9	87.9	87.9	87.9	87.9	88.0	88.0
>= 2500	11.7	68.8	78.0	83.9	87.6	88.3	89.0	89.3	89.3	89.4	89.4	89.4	89.4	89.4	89.4	89.5
>= 2000	11.9	70.5	79.9	86.0	89.9	90.6	91.4	91.6	91.6	91.7	91.7	91.7	91.7	91.7	91.8	91.8
>= 1800	11.9	70.6	80.1	86.2	90.1	90.8	91.6	91.8	91.8	91.9	92.0	92.0	92.0	92.0	92.0	92.0
>= 1500	12.1	71.6	81.4	87.7	91.7	92.5	93.4	93.7	93.7	93.8	93.8	93.8	93.8	93.8	93.9	93.9
>= 1200	12.2	72.4	82.4	88.8	93.0	93.8	94.7	95.0	95.0	95.1	95.2	95.2	95.2	95.2	95.2	95.2
>= 1000	12.3	73.1	83.3	89.8	94.1	95.0	95.9	96.2	96.2	96.4	96.4	96.4	96.4	96.4	96.5	96.6
>= 900	12.3	73.4	83.6	90.2	94.6	95.5	96.5	96.8	96.8	97.0	97.0	97.0	97.0	97.0	97.1	97.1
>= 800	12.3	73.7	84.1	90.7	95.2	96.2	97.2	97.6	97.6	97.9	97.9	97.9	97.9	97.9	98.0	98.0
>= 700	12.3	74.0	84.4	91.1	95.7	96.7	97.7	98.1	98.1	98.2	98.4	98.4	98.4	98.4	98.5	98.6
>= 600	12.3	74.2	84.7	91.5	96.2	97.2	98.3	98.7	98.7	99.0	99.0	99.0	99.0	99.0	99.1	99.1
>= 500	12.3	74.3	84.9	91.7	96.4	97.5	98.6	99.0	99.0	99.3	99.3	99.3	99.3	99.3	99.5	99.5
>= 400	12.3	74.3	84.9	91.8	96.5	97.6	98.7	99.2	99.2	99.5	99.5	99.6	99.6	99.6	99.7	99.7
>= 300	12.3	74.4	84.9	91.8	96.6	97.6	98.8	99.2	99.3	99.6	99.6	99.7	99.7	99.7	99.8	99.9
>= 200	12.3	74.4	84.9	91.8	96.6	97.6	98.8	99.3	99.3	99.7	99.7	99.7	99.7	99.7	99.8	99.9
>= 100	12.3	74.4	84.9	91.8	96.6	97.6	98.8	99.3	99.3	99.7	99.7	99.7	99.7	99.7	99.8	99.9
>= 0	12.3	74.4	84.9	91.8	96.6	97.6	98.8	99.3	99.3	99.7	99.7	99.7	99.7	99.7	99.9	100.0

TOTAL NO. OF OBS : 10066



# 1 - SURFACE WINDS

013750 : NORFOLK, VA  
 PERIOD OF RECORD : 1945-1986  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
 MONTH : AUG  
 HOUR : 0100 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

DIR.	SPEED (KNOTS)																TOTAL %	MEAN WIND SPEED
	16-20	21-25	26-30	31-35	36-40	41-45	46-50	51-55	56-60	61-65	66-70	71-75	76-80	81-85	86-90	91-95		
N	.2	.5	.5	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6	8.2
NNE	.2	.2	.7	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.3	11.1
NE	.2	.8	1.1	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.5	10.0
ENE	.4	1.7	1.7	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.1	8.2
E	1.2	2.2	1.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.6	5.3
ESE	.7	.5	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6	5.0
SE	1.0	1.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.5	3.5
SSE	2.5	2.5	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.4	4.0
S	2.5	4.5	.4	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11.7	5.9
SSW	1.0	5.4	8.1	2.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	18.1	7.5
SW	1.0	4.4	5.1	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12.3	7.5
WSW	.5	2.2	2.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.1	6.7
W	.8	1.2	1.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.3	6.3
WNW	.2	.5	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	7.7
NW	.3	.6	1.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.4	7.9
NNW	.2	.8	.8	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.7	9.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15.4	.0
ALL	14.5	29.1	29.1	10.3	1.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	5.9

TOTAL NO. OF OBS : 1301

NOTES :  
 \* = PERCENT < .05



# 1 - SURFACE WINDS

013750 : NORFOLK, VA  
 PERIOD OF RECORD : 1945-1986  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
 MONTH : AUG  
 HOUR : 0400 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

16 PT. DIR.	1	3	4	6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>56	TOTAL %	MEAN WIND SPEED
N	.3	.7	1.1	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.2	9.5
NNE	.2	.5	1.2	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.2	10.0
NE	.2	1.2	1.8	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.5	10.1
ENE	.7	1.2	1.1	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.1	8.2
E	.9	1.2	1.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.5	6.0
ESE	.7	.7	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0	5.1
SE	1.2	.5	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0	4.1
SSE	1.8	1.4	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.5	4.1
S	2.2	2.7	2.3	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.6	5.7
SSW	2.6	4.4	6.0	1.4	.2	.1	.0	.0	.0	.0	.0	.0	.0	14.6	6.8
SW	1.7	5.1	6.6	1.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	14.8	6.9
WSW	1.2	3.2	2.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.2	6.3
W	.3	1.5	1.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.0	6.3
WNW	.7	.9	1.1	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.0	6.3
NW	.5	1.2	1.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.4	6.4
NNW	.5	1.8	1.8	.6	.2	.0	.0	.0	.0	.0	.0	.0	.0	4.8	7.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14.7	.0
ALL	15.6	28.2	29.4	10.1	1.5	.2	.0	.0	.0	.1	.0	.0	.0	100.0	5.9

TOTAL NO. OF OBS : 1301

NOTES :  
 \* = PERCENT < .05



# 1 - SURFACE WINDS

013750 : NORFOLK, VA  
PERIOD OF RECORD : 1945-1986  
CLASS : ALL WEATHER  
CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : AUG  
HOUR : 0700 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>56	TOTAL	MEAN
												%	WIND SPEED
N	.4	1.5	1.6	1.6	.2	.0	.0	.0	.0	.0	.0	5.3	8.9
NNE	.2	.7	1.7	2.1	.5	.2	.0	.0	.0	.0	.0	5.3	11.1
NE	.5	1.1	2.5	2.5	.4	.0	.0	.0	.0	.0	.0	7.0	9.7
ENE	.5	.9	1.7	1.2	.1	.0	.0	.0	.0	.0	.0	4.3	8.8
E	1.2	1.3	1.2	.2	.1	.0	.0	.0	.0	.0	.0	4.0	6.1
ESE	.7	.5	.7	.2	.0	.0	.0	.0	.0	.0	.0	2.1	6.0
SE	.8	1.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	2.2	5.1
SSE	.8	1.4	.6	.2	.0	.0	.0	.0	.0	.0	.0	3.0	5.2
S	1.5	2.9	1.8	.5	.0	.0	.0	.0	.0	.0	.0	6.8	5.9
SSW	1.6	3.9	4.8	1.8	.1	.0	.0	.0	.0	.0	.0	12.2	7.5
SW	.8	5.7	5.9	1.7	.1	.0	.0	.0	.0	.0	.0	14.1	7.3
WSW	1.2	3.5	2.8	.5	.0	.0	.0	.0	.0	.0	.0	8.0	6.4
W	.7	1.8	1.8	.3	.1	.0	.0	.0	.0	.0	.0	4.6	6.5
WNW	.4	1.1	.7	.2	.0	.0	.0	.0	.0	.0	.0	2.3	6.0
NW	.3	1.7	1.9	.2	.0	.0	.0	.0	.0	.0	.0	4.2	6.8
NNW	1.0	2.2	2.8	.5	.2	.0	.0	.0	.0	.0	.0	6.6	7.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.9	.0
ALL	12.6	31.1	32.7	13.8	1.6	.2	.0	.1	.0	.0	.0	100.0	6.8

TOTAL NO. OF OBS : 1301

NOTES :  
\* = PERCENT < .05



# 1 - SURFACE WINDS

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
 MONTH : AUG  
 HOUR : 1000 LST

013750 : NORFOLK, VA  
 PERIOD OF RECORD : 1945-1986  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

DIR.	SPEED (KNOTS)											TOTAL Σ	MEAN WIND SPEED
	1 - 3	4 - 6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>=56		
N	1.9	4.2	2.8	1.7	.4	.1	.0	.0	.0	.0	.0	11.1	7.0
NNE	.4	2.4	4.8	3.4	.8	.0	.0	.0	.0	.0	.0	11.8	9.6
NE	.5	1.9	3.5	2.3	.3	.0	.0	.0	.0	.0	.0	8.5	9.1
ENE	.4	2.1	3.2	1.8	.4	.0	.0	.0	.0	.0	.0	7.9	8.9
E	.7	1.3	1.6	.5	.0	.1	.0	.0	.0	.0	.0	4.2	7.1
ESE	.3	.9	.7	.2	.0	.0	.0	.0	.0	.0	.0	2.2	6.6
SE	.2	.4	.7	.1	.0	.0	.0	.0	.0	.0	.0	1.3	7.2
SSE	.1	.3	.8	.1	.0	.0	.0	.0	.0	.0	.0	1.2	6.8
S	.7	1.3	1.8	.3	.2	.0	.0	.0	.0	.0	.0	4.2	7.0
SSW	.5	2.2	4.5	2.5	.2	.1	.0	.0	.0	.0	.0	9.9	8.8
SW	1.0	2.5	4.6	2.5	.0	.1	.0	.0	.0	.0	.0	10.8	8.3
WSW	1.0	3.7	3.8	1.6	.0	.0	.0	.0	.0	.0	.0	10.1	7.5
W	.8	3.7	2.6	.5	.0	.0	.0	.0	.0	.0	.0	7.6	6.4
WNW	.2	1.2	.5	.1	.0	.0	.0	.0	.0	.0	.0	2.0	6.0
NW	.2	.8	.4	.4	.0	.0	.0	.0	.0	.0	.0	1.8	6.8
NNW	.5	1.5	.8	.5	.1	.0	.1	.0	.0	.0	.0	3.6	7.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.8	.0
ALL	9.4	30.4	37.2	18.6	2.2	.3	.1	.0	.0	.0	.0	100.0	7.8

TOTAL NO. OF OBS : 1301

NOTES :  
 \* = PERCENT < .05



# 1 - SURFACE WINDS

013750 : NORFOLK, VA  
 PERIOD OF RECORD : 1945-1986  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
 MONTH : AUG  
 HOUR : 1300 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

16 PT. DIR.	1	2	3	4	5	6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>56	TOTAL	MEAN WIND SPEED
N	1.0	3.2	1.8	1.2	.2	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	7.5	7.6
NNE	.5	4.4	7.1	3.4	.5	.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	15.9	8.7
NE	.4	3.2	3.8	2.1	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.6	8.3
ENE	.5	3.3	6.5	2.4	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13.0	8.4
E	.4	1.7	3.1	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.8	8.3
ESE	.0	.3	.8	.5	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	1.8	11.0
SE	.0	.5	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	7.6
SSE	.2	.8	.7	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2	7.4
S	.2	1.3	2.2	.7	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.5	8.4
SSW	.2	1.5	3.8	2.5	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.5	9.5
SW	.3	1.2	3.2	1.8	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.5	9.0
WSW	.3	1.8	4.3	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.1	8.5
W	.4	1.8	3.8	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.8	7.9
WNW	.2	.7	1.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.5	7.3
NW	.3	.4	.3	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	7.9
NNW	.2	.8	.8	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2	7.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	.0
ALL	5.3	27.0	43.9	20.0	1.8	.5	.1	.1	.0	.0	.0	.0	.0	.0	.0	100.0	8.3

TOTAL NO. OF OBS : 1301

NOTES :  
 \* = PERCENT < .05



# 1 - SURFACE WINDS

013750 : NORFOLK, VA  
 PERIOD OF RECORD : 1945-1986  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT

MONTH : AUG  
 HOUR : 1600 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

16 PT.		1	-	31	4	-	61	7-101	11-161	17-211	SPEED (KNOTS)					28-331	34-401	41-471	48-551	>=561	TOTAL %	MEAN WIND SPEED
DIR.																						
N		.5		1.5		.7		.5		.1		.1		.0		.0		.0		.0	3.3	7.2
NNE		.3		2.6		3.3		2.3		.3		.2		.0		.0		.0		.0	9.1	9.1
NE		.2		2.5		2.8		1.5		.1		.2		.0		.0		.0		.0	7.3	8.4
ENE		.7		3.3		6.5		3.3		.3		.0		.0		.0		.0		.0	14.2	8.7
E		1.7		5.8		5.5		1.8		.3		.0		.0		.0		.0		.0	15.1	7.3
ESE		.1		1.6		1.8		.9		.0		.1		.0		.0		.0		.0	4.5	8.3
SE		.1		1.8		2.4		1.4		.1		.1		.0		.0		.0		.0	5.8	8.6
SSE		.5		.9		1.9		.8		.0		.0		.0		.0		.0		.0	4.2	7.8
S		.1		1.2		2.2		1.2		.0		.0		.0		.0		.0		.0	4.7	8.9
SSW		.2		1.1		4.8		3.5		.3		.0		.0		.0		.0		.0	9.9	9.8
SW		.3		.8		3.5		1.6		.2		.0		.0		.0		.0		.0	6.3	9.3
WSW		.3		1.5		2.6		1.2		.0		.0		.0		.0		.0		.0	5.5	8.3
W		.2		1.2		1.9		.4		.0		.0		.0		.0		.0		.0	3.7	7.4
WNW		.2		.4		1.1		.4		.1		.0		.0		.0		.0		.0	2.2	8.4
NW		.0		.4		.3		.3		.1		.1		.0		.0		.0		.0	1.2	10.1
NNW		.2		.4		.8		.4		.1		.0		.0		.0		.0		.0	1.8	9.1
VAR		.0		.0		.0		.0		.0		.0		.0		.0		.0		.0	.0	.0
CLM		.0		.0		.0		.0		.0		.0		.0		.0		.0		.0	1.2	.0
ALL		5.5		26.9		42.2		21.6		1.8		.7		.0		.0		.0		.0	100.0	8.4

TOTAL NO. OF OBS : 1300

NOTES :  
 \* = PERCENT < .05



# 1 - SURFACE WINDS

013750 : NORFOLK, VA  
 PERIOD OF RECORD : 1945-1986  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
 MONTH : AUG  
 HOUR : 1900 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

DIR.	1-5	6-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>=56	TOTAL	MEAN WIND SPEED
N	.5	.4	1.1	.9	.1	.0	.0	.0	.0	.0	2.9	8.8
NNE	.2	.6	1.5	1.1	.2	.0	.0	.0	.0	.0	3.5	9.6
NE	.5	.8	2.3	1.2	.1	.0	.0	.0	.0	.0	4.8	8.5
ENE	1.5	2.0	3.3	1.4	.6	.0	.0	.0	.0	.0	8.8	8.4
E	3.5	4.2	2.8	.2	.0	.0	.0	.0	.0	.0	10.8	5.1
ESE	2.2	2.9	1.6	.3	.0	.0	.0	.0	.0	.0	7.1	5.1
SE	2.4	5.6	3.4	.4	.0	.0	.0	.0	.0	.0	11.8	5.7
SSE	1.8	4.9	4.2	.3	.0	.0	.0	.0	.0	.0	11.2	6.1
S	.7	2.8	5.2	1.6	.1	.0	.0	.0	.0	.0	10.5	7.7
SSW	.4	2.7	5.5	1.8	.1	.0	.0	.0	.0	.0	10.5	8.2
SW	.2	1.8	2.3	.7	.0	.0	.0	.0	.0	.0	5.0	7.6
WSW	.5	1.7	1.2	.0	.0	.0	.0	.0	.0	.0	3.4	5.7
W	.2	.4	.8	.2	.1	.0	.0	.0	.0	.0	1.6	7.8
WNW	.3	.5	.2	.2	.0	.0	.0	.0	.0	.0	1.2	5.8
NW	.0	.6	.5	.2	.2	.0	.0	.0	.0	.0	1.5	9.0
NNW	.2	.2	.4	.2	.0	.0	.0	.0	.0	.0	.9	7.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.5	.0
ALL	15.1	32.2	36.2	10.6	1.3	.2	.0	.0	.0	.0	100.0	6.7

TOTAL NO. OF OBS : 1300

NOTES : \* = PERCENT < .05



# 1 - SURFACE WINDS

013750 : NORFOLK, VA  
 PERIOD OF RECORD : 1945-1986  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
 MONTH : AUG  
 HOUR : 2200 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

16 PT. 1		SPEED (KNOTS)																TOTAL		MEAN	
DIR.		1	2	3	4	5	6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>56	%	SPEED			
N		.2				.5		.6	.6	.3	.1	.0	.0	.0	.0	.0	2.2	10.4			
NNE		.2				.6		.5	.7	.2	.0	.0	.0	.0	.0	.0	2.2	10.1			
NE		.3				.5		1.8	1.2	.1	.0	.1	.1	.0	.0	.0	4.1	10.2			
ENE		.8				1.5		1.8	1.3	.1	.0	.0	.0	.0	.0	.0	5.5	7.9			
E		1.7				2.8		1.5	.2	.0	.0	.0	.0	.0	.0	.0	6.2	5.5			
ESE		1.2				1.9		1.1	.0	.0	.0	.0	.0	.0	.0	.0	4.2	4.9			
SE		2.7				2.2		.8	.2	.0	.0	.0	.0	.0	.0	.0	5.9	4.4			
SSE		4.2				5.0		1.3	.4	.0	.1	.0	.1	.0	.0	.0	11.1	4.9			
S		2.8				5.6		4.9	2.6	.2	.0	.0	.0	.0	.0	.0	16.2	7.0			
SSW		1.8				3.5		6.8	3.6	.0	.0	.0	.0	.0	.0	.0	15.6	8.0			
SW		.7				2.1		3.4	.8	.0	.0	.0	.0	.0	.0	.0	7.0	7.2			
WSW		.8				1.0		.9	.1	.0	.0	.0	.0	.0	.0	.0	2.8	5.7			
W		.2				.5		.8	.1	.0	.2	.0	.0	.0	.0	.0	1.8	8.3			
WNW		.1				.2		.3	.2	.0	.0	.0	.0	.0	.0	.0	.8	8.1			
NW		.2				.3		.8	.2	.0	.0	.0	.0	.0	.0	.0	1.5	7.2			
NNW		.2				.5		.5	.2	.2	.0	.0	.0	.0	.0	.0	1.5	8.8			
VAR		.0				.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
CLM		.0				.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	11.5	.0			
ALL	17.9	28.6				28.0		12.3	1.0	.3	.1	.2	.0	.0	.0	.0	103.0	6.1			

TOTAL NO. OF OBS : 1299

NOTES :  
 \* = PERCENT < .05



# 1 - SURFACE WINDS

013750 : NORFOLK, VA  
 PERIOD OF RECORD : 1945-1986  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
 MONTH : AUG  
 HOUR : ALL

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

DIR.	SPEED (KNOTS)																TOTAL	MEAN WIND SPEED
	16-20	21-25	26-30	31-35	36-40	41-45	46-50	51-55	56-60	61-65	66-70	71-75	76-80	81-85	86-90	91-95		
N	.6	1.6	1.3	1.0	.2	.0*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.7	8.0
NNE	.3	1.5	2.6	1.9	.4	.0*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.6	9.5
NE	.4	1.5	2.5	1.7	.2	.0*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.3	9.1
ENE	.7	2.0	3.2	1.7	.2	.0*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.9	8.5
E	1.4	2.5	2.2	.6	.1	.0*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.9	6.4
ESE	.7	1.2	.9	.3	.0*	.0*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.2	6.2
SE	1.2	1.7	1.1	.3	.0*	.0*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.2	5.7
SSE	1.5	2.2	1.2	.3	.0*	.0*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.2	5.5
S	1.3	2.8	3.1	1.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.3	6.9
SSW	1.2	3.1	5.5	2.4	.2	.0*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12.4	8.1
SW	.7	2.9	4.3	1.5	.1	.0*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.6	7.7
WSW	.7	2.3	2.5	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.3	7.1
W	.4	1.5	1.7	.3	.0*	.0*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.1	7.0
WNW	.3	.7	.7	.2	.0*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9	6.9
NW	.2	.7	.8	.3	.0*	.0*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.1	7.4
NNW	.4	1.0	1.1	.4	.1	.0*	.0*	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.0	7.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.3	.0
ALL	12.0	29.2	34.8	14.7	1.6	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	7.0

TOTAL NO. OF OBS : 10404

NOTES : \* = PERCENT < .05



## 2 - CEILING VS VISIBILITY

013750 : NORFOLK, VA  
 PERIOD OF RECORD : 1945-1986  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
 MONTH : AUG  
 HOUR : 0100 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

## VISIBILITY (STATUTE MILES)

CEILING	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=1	1/2	>=1	>=3/4	>=5/8	>=1/2	>=5/16	>=1/4	>=0
UNLIMIT	4.9	49.3	57.7	61.3	63.7	64.0	64.6	64.7	64.7	65.0	65.0	65.0	65.0	65.0	65.0	65.0
>=20000	5.1	52.7	61.7	65.7	68.4	68.7	69.4	69.5	69.5	69.7	69.8	69.8	69.8	69.8	69.8	69.8
>=18000	5.1	52.7	61.7	65.8	68.5	68.8	69.5	69.5	69.5	69.8	69.9	69.9	69.9	69.9	69.9	69.9
>=16000	5.1	52.8	61.8	65.9	68.6	68.9	69.6	69.6	69.6	69.9	69.9	69.9	69.9	69.9	69.9	69.9
>=14000	5.3	53.3	62.3	66.4	69.1	69.4	70.0	70.1	70.1	70.3	70.4	70.4	70.4	70.4	70.4	70.4
>=12000	5.8	54.7	64.0	68.1	70.9	71.2	71.8	71.9	71.9	72.1	72.2	72.2	72.2	72.2	72.2	72.2
>=10000	6.1	59.6	69.5	74.0	76.7	77.1	77.7	77.8	77.8	78.1	78.2	78.2	78.2	78.2	78.2	78.2
>=9000	6.1	59.8	69.7	74.2	77.0	77.3	78.0	78.1	78.1	78.4	78.5	78.5	78.5	78.5	78.5	78.5
>=8000	6.2	63.1	73.6	78.3	81.2	81.6	82.2	82.3	82.3	82.6	82.7	82.7	82.7	82.7	82.7	82.7
>=7000	6.2	63.7	74.1	78.9	81.8	82.2	82.9	83.0	83.0	83.3	83.3	83.3	83.3	83.3	83.3	83.3
>=6000	6.3	64.5	74.9	79.9	82.9	83.3	83.9	84.0	84.0	84.3	84.4	84.4	84.4	84.4	84.4	84.4
>=5000	6.4	65.2	75.8	80.8	83.8	84.2	84.8	84.9	84.9	85.2	85.3	85.3	85.3	85.3	85.3	85.3
>=4500	6.4	65.5	76.2	81.2	84.2	84.6	85.2	85.3	85.3	85.6	85.7	85.7	85.7	85.7	85.7	85.7
>=4000	6.5	66.7	77.4	82.6	85.6	86.0	86.7	86.7	86.7	87.1	87.1	87.1	87.1	87.1	87.1	87.1
>=3500	6.6	67.1	78.1	83.3	86.3	86.7	87.3	87.4	87.4	87.7	87.8	87.8	87.8	87.8	87.8	87.8
>=3000	6.7	68.8	80.0	85.4	88.4	88.8	89.4	89.5	89.5	89.8	89.9	89.9	89.9	89.9	89.9	89.9
>=2500	6.7	69.4	80.7	86.3	89.3	89.9	90.5	90.6	90.6	90.9	91.0	91.0	91.0	91.0	91.0	91.0
>=2000	6.7	70.3	82.1	87.8	90.9	91.6	92.3	92.4	92.4	92.7	92.8	92.8	92.8	92.8	92.8	92.8
>=1800	6.7	70.5	82.2	87.9	91.1	91.8	92.5	92.6	92.6	92.9	93.0	93.0	93.0	93.0	93.0	93.0
>=1500	6.7	71.2	83.0	89.0	92.5	93.2	94.0	94.1	94.1	94.4	94.5	94.5	94.5	94.5	94.5	94.5
>=1200	6.7	71.7	83.7	89.8	93.4	94.1	94.9	95.0	95.0	95.3	95.4	95.4	95.4	95.4	95.4	95.4
>=1000	6.7	72.2	84.4	90.4	94.1	94.8	95.7	95.7	95.7	96.1	96.1	96.1	96.1	96.1	96.1	96.1
>=900	6.7	72.6	84.8	91.0	94.7	95.4	96.3	96.4	96.4	96.8	96.8	96.8	96.8	96.8	96.8	96.8
>=800	6.7	73.0	85.3	91.5	95.3	96.0	96.9	97.0	97.0	97.4	97.5	97.5	97.5	97.5	97.5	97.5
>=700	6.7	73.6	86.0	92.3	96.1	96.8	97.9	97.9	97.9	98.3	98.4	98.4	98.4	98.4	98.4	98.4
>=600	6.7	74.0	86.4	92.8	96.8	97.5	98.6	98.7	98.7	99.1	99.1	99.1	99.1	99.1	99.1	99.1
>=500	6.7	74.2	86.9	93.3	97.3	98.1	99.2	99.3	99.3	99.7	99.8	99.8	99.8	99.8	99.8	99.8
>=400	6.7	74.3	87.0	93.4	97.4	98.2	99.3	99.4	99.4	99.8	99.9	99.9	99.9	99.9	99.9	99.9
>=300	6.7	74.3	87.0	93.4	97.4	98.2	99.3	99.4	99.4	99.8	99.9	99.9	99.9	99.9	99.9	99.9
>=200	6.7	74.3	87.0	93.4	97.4	98.2	99.3	99.4	99.4	99.8	99.9	99.9	99.9	99.9	99.9	99.9
>=100	6.7	74.3	87.0	93.4	97.4	98.2	99.3	99.4	99.4	99.8	99.9	99.9	99.9	99.9	99.9	99.9
>=0	6.7	74.3	87.0	93.4	97.4	98.2	99.3	99.4	99.4	99.8	99.9	99.9	99.9	99.9	99.9	99.9

TOTAL NO. OF OBS : 1267



013750 : NORFOLK, VA  
PERIOD OF RECORD : 1945-1986  
CLASS : ALL WEATHER  
CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : AUG  
HOUR : 0400 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)												
	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=1	1/4	>=1/8	>=5/16	>=1/4	>=0
UNLIMIT	4.4	45.3	53.8	58.2	61.9	62.8	63.2	63.9	63.9	64.0	64.1	64.2	64.2
>=20000	4.5	48.1	57.0	61.8	65.6	66.5	66.9	67.6	67.7	67.8	67.8	67.9	67.9
>=18000	4.5	48.1	57.0	61.8	65.7	66.6	67.0	67.7	67.8	67.8	67.9	68.0	68.0
>=16000	4.5	48.1	57.0	61.8	65.7	66.6	67.0	67.7	67.8	67.8	67.9	68.0	68.0
>=14000	4.5	48.3	57.3	62.3	66.1	67.1	67.4	68.1	68.2	68.3	68.4	68.5	68.5
>=12000	4.8	49.8	59.0	64.0	67.8	68.8	69.2	69.9	69.9	70.0	70.1	70.2	70.2
>=10000	4.9	53.9	63.5	68.7	72.8	73.8	74.1	74.8	74.9	75.0	75.1	75.2	75.2
>=9000	4.9	54.0	63.6	68.8	73.0	73.9	74.3	75.0	75.1	75.2	75.2	75.3	75.3
>=8000	5.1	57.6	67.8	73.4	77.7	78.7	79.1	79.8	79.9	80.0	80.1	80.1	80.1
>=7000	5.2	58.6	68.7	74.4	78.7	79.8	80.1	80.8	80.9	81.0	81.1	81.2	81.2
>=6000	5.3	58.9	69.2	74.9	79.3	80.3	80.7	81.4	81.5	81.5	81.6	81.7	81.7
>=5000	5.3	59.6	69.9	75.7	80.1	81.1	81.5	82.2	82.2	82.3	82.4	82.5	82.5
>=4500	5.4	60.2	70.5	76.3	80.7	81.7	82.1	82.8	82.9	83.0	83.0	83.1	83.1
>=4000	5.5	61.1	71.4	77.3	81.7	82.7	83.1	83.8	83.9	84.0	84.0	84.1	84.1
>=3500	5.5	61.6	72.0	77.9	82.3	83.3	83.7	84.4	84.5	84.6	84.7	84.7	84.7
>=3000	5.7	63.2	73.9	80.3	84.9	85.9	86.4	87.1	87.1	87.2	87.3	87.4	87.4
>=2500	5.7	64.2	75.0	81.5	86.1	87.4	87.9	88.6	88.6	88.7	88.8	88.9	88.9
>=2000	5.8	65.2	76.1	82.9	87.6	88.9	89.4	90.1	90.2	90.3	90.3	90.4	90.4
>=1800	5.8	65.3	76.2	83.1	87.8	89.0	89.6	90.3	90.3	90.4	90.5	90.6	90.6
>=1500	5.8	66.1	77.3	84.3	88.9	90.2	90.7	91.4	91.5	91.6	91.7	91.7	91.7
>=1200	5.8	66.9	78.1	85.2	90.0	91.2	91.7	92.4	92.5	92.6	92.7	92.8	92.8
>=1000	5.8	67.8	79.2	86.5	91.3	92.5	93.2	93.9	94.0	94.1	94.2	94.2	94.2
>=900	5.8	68.1	79.6	87.1	91.8	93.1	93.8	94.5	94.5	94.6	94.7	94.8	94.8
>=800	5.8	69.0	80.5	88.0	92.8	94.1	95.0	95.7	95.8	95.9	96.0	96.0	96.0
>=700	5.8	69.3	80.8	88.3	93.2	94.5	95.5	96.2	96.3	96.3	96.4	96.5	96.5
>=600	5.8	69.9	81.8	89.4	94.3	95.6	96.6	97.3	97.4	97.5	97.6	97.6	97.6
>=500	5.8	70.4	82.3	90.1	95.0	96.3	97.4	98.1	98.2	98.3	98.4	98.4	98.4
>=400	5.9	70.5	82.5	90.3	95.2	96.5	97.7	98.4	98.5	98.7	98.8	98.8	98.8
>=300	5.9	70.6	82.6	90.4	95.3	96.6	97.7	98.5	98.6	98.8	98.9	99.0	99.0
>=200	5.9	70.6	82.6	90.6	95.5	96.7	97.9	98.8	98.8	99.1	99.2	99.3	99.3
>=100	5.9	70.6	82.6	90.6	95.5	96.7	97.9	98.8	98.8	99.1	99.4	99.5	99.5
>=0	5.9	70.6	82.6	90.6	95.5	96.7	97.9	98.8	98.8	99.1	99.5	99.7	100.0

TOTAL NO. OF OBS : 1284



## 2 - CEILING VS VISIBILITY

013750 : NORFOLK, VA  
PERIOD OF RECORD : 1945-1986  
CLASS : ALL WEATHER  
CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : AUG  
HOUR : 0700 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)									
	>=10	>=6	>=5	>=4	>=3	>=2 1/2	>=2	>=1 1/2	>=1 1/4	>=1
UNLIMIT	2.8	26.6	34.5	41.2	47.0	48.7	51.2	52.7	52.7	52.8
>=20000	3.0	29.9	38.8	46.1	52.4	54.4	57.2	58.7	58.7	58.8
>=18000	3.1	30.1	39.0	46.3	52.6	54.6	57.4	58.9	58.9	59.0
>=16000	3.1	30.2	39.1	46.4	52.7	54.7	57.5	59.0	59.0	59.1
>=14000	3.2	30.8	39.8	47.2	53.5	55.5	58.3	59.8	59.8	59.9
>=12000	3.4	32.9	42.2	49.9	56.3	58.3	61.4	63.0	63.0	63.0
>=10000	3.6	36.7	46.9	55.2	62.1	64.1	67.8	69.4	69.4	69.5
>=9000	3.6	36.8	47.0	55.4	62.3	64.4	68.0	69.7	69.7	69.7
>=8000	3.9	41.2	52.3	61.5	69.0	71.1	74.8	76.4	76.4	76.5
>=7000	3.9	41.8	53.0	62.3	69.9	71.9	75.7	77.3	77.3	77.4
>=6000	4.0	42.1	53.3	62.6	70.3	72.3	76.1	77.8	77.8	77.9
>=5000	4.0	42.2	53.6	62.9	70.7	72.7	76.6	78.3	78.3	78.3
>=4500	4.1	42.4	53.8	63.1	70.9	73.0	76.8	78.5	78.5	78.6
>=4000	4.1	43.2	54.8	64.1	72.1	74.2	78.1	79.7	79.7	79.8
>=3500	4.2	43.5	55.2	64.5	72.7	74.8	78.6	80.3	80.3	80.4
>=3000	4.2	44.5	56.3	65.8	74.0	76.1	80.1	81.7	81.7	81.8
>=2500	4.3	45.9	57.9	67.6	75.9	77.9	82.0	83.7	83.7	83.8
>=2000	4.3	46.7	58.9	68.7	77.0	79.2	83.5	85.1	85.1	85.2
>=1800	4.3	47.0	59.3	69.0	77.4	79.6	83.9	85.6	85.6	85.7
>=1500	4.4	48.1	60.9	70.8	79.2	81.4	85.9	87.5	87.5	87.6
>=1200	4.5	48.9	62.1	72.3	80.8	83.1	87.5	89.2	89.2	89.3
>=1000	4.6	50.0	63.8	73.9	82.7	85.0	89.5	91.3	91.3	91.3
>=900	4.6	50.4	64.2	74.5	83.3	85.7	90.1	91.9	91.9	92.0
>=800	4.6	51.2	65.3	75.8	84.8	87.2	91.8	93.7	93.7	93.9
>=700	4.8	51.8	66.2	76.7	86.1	88.7	93.5	95.5	95.5	95.8
>=600	4.8	52.0	66.7	77.2	86.7	89.4	94.4	96.4	96.4	96.8
>=500	4.9	52.3	67.1	77.9	87.4	90.1	95.3	97.4	97.4	97.8
>=400	4.9	52.6	67.3	78.3	87.9	90.6	95.7	98.0	98.0	98.4
>=300	4.9	52.6	67.3	78.3	87.9	90.6	95.8	98.1	98.1	98.7
>=200	4.9	52.6	67.3	78.3	87.9	90.6	95.9	98.3	98.3	98.8
>=100	4.9	52.6	67.3	78.3	87.9	90.6	95.9	98.3	98.3	98.8
>=0	4.9	52.6	67.3	78.3	87.9	90.6	95.9	98.3	98.3	98.8

TOTAL NO. OF OBS : 1269



## 2 - CEILING VS VISIBILITY

013750 : NORFOLK, VA  
PERIOD OF RECORD : 1945-1986  
CLASS : ALL WEATHER  
CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : AUG  
HOUR : 1000 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)															
	>=10	>=6	>=5	>=4	>=3	>=2 1/2	>=2	>=1 1/2	>=1 1/4	>=1	>=3/4	>=5/8	>=1/2	>=5/16	>=1/4	>=0
UNLIMIT	5.4	37.8	46.1	51.5	55.1	55.9	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6	56.6
>=20000	6.2	40.9	49.8	55.9	59.7	60.6	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4
>=18000	6.2	41.1	49.9	56.1	59.9	60.7	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5
>=16000	6.2	41.2	50.0	56.2	60.0	60.9	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7
>=14000	6.6	42.1	51.0	57.4	61.2	62.1	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9
>=12000	6.6	43.8	53.0	59.8	63.7	64.5	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4
>=10000	6.8	47.0	56.7	64.1	68.2	69.2	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1
>=9000	6.8	47.2	56.9	64.3	68.4	69.4	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2
>=8000	6.9	50.5	61.1	69.1	73.5	74.6	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5
>=7000	7.0	51.3	62.2	70.5	74.9	76.0	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9
>=6000	7.0	51.9	63.0	71.2	75.6	76.8	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
>=5000	7.1	52.1	63.1	71.3	75.8	77.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0
>=4500	7.2	52.3	63.3	71.6	76.1	77.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3
>=4000	7.3	53.4	64.7	73.1	77.7	78.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9
>=3500	7.3	53.6	64.9	73.3	78.0	79.2	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3
>=3000	7.3	55.6	67.1	75.5	80.4	81.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7
>=2500	7.6	57.7	69.2	77.6	82.5	83.8	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9
>=2000	7.9	59.6	71.6	80.3	85.3	86.7	87.9	87.9	87.9	87.9	87.9	87.9	88.0	88.0	88.0	88.0
>=1800	8.0	59.9	71.9	80.6	85.5	86.9	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2
>=1500	8.5	62.7	75.0	83.8	89.1	90.4	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9
>=1200	8.8	64.3	77.1	86.3	92.0	93.4	94.8	94.8	94.8	94.8	94.8	94.8	94.9	94.9	94.9	94.9
>=1000	8.8	65.4	78.6	88.2	94.0	95.3	96.8	96.8	96.8	96.8	96.8	96.8	96.9	96.9	96.9	96.9
>=900	8.8	66.0	79.4	88.9	94.8	96.1	97.6	97.6	97.6	97.6	97.6	97.6	97.8	97.8	97.8	97.8
>=800	8.9	66.3	79.9	89.6	95.5	96.9	98.4	98.4	98.4	98.5	98.6	98.6	98.7	98.7	98.7	98.7
>=700	8.9	66.4	80.1	89.7	95.7	97.2	98.7	98.7	98.7	98.7	98.8	98.8	99.0	99.0	99.0	99.0
>=600	8.9	66.4	80.1	89.7	95.7	97.2	98.7	98.7	98.7	98.7	98.8	98.8	99.1	99.1	99.1	99.1
>=500	8.9	66.4	80.1	89.7	95.9	97.3	99.1	99.1	99.1	99.4	99.4	99.4	99.6	99.6	99.6	99.6
>=400	8.9	66.6	80.3	89.9	96.1	97.5	99.3	99.4	99.4	99.6	99.7	99.7	99.8	99.8	99.8	99.8
>=300	8.9	66.6	80.3	89.9	96.1	97.5	99.3	99.4	99.4	99.7	99.8	99.8	99.9	99.9	99.9	99.9
>=200	8.9	66.6	80.3	89.9	96.1	97.5	99.4	99.4	99.4	99.8	99.8	99.8	100.0	100.0	100.0	100.0
>=100	8.9	66.6	80.3	89.9	96.1	97.5	99.4	99.4	99.4	99.8	99.8	99.8	100.0	100.0	100.0	100.0
>=0	8.9	66.6	80.3	89.9	96.1	97.5	99.4	99.4	99.4	99.8	99.8	99.8	100.0	100.0	100.0	100.0

TOTAL NO. OF OBS : 1266



## 2 - CEILING VS VISIBILITY

013750 : NORFOLK, VA  
 PERIOD OF RECORD : 1945-1986  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
 MONTH : AUG  
 HOUR : 1300 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)															
	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=1	1/2	>=1	1/4	>=1	>=3/4	>=5/8	>=1/2	>=5/16
UNLIMIT	7.7	44.0	50.8	55.3	56.9	57.3	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5
>=20000	8.6	48.1	55.7	61.0	62.8	63.2	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4
>=18000	8.8	48.3	56.0	61.3	63.0	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6	63.6
>=16000	8.9	48.5	56.1	61.4	63.2	63.6	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8
>=14000	9.3	49.2	57.0	62.3	64.2	64.6	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8
>=12000	9.4	50.5	58.6	64.2	66.2	66.6	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9
>=10000	9.6	53.4	61.8	67.7	69.8	70.3	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6
>= 8000	9.6	53.5	62.0	67.9	70.1	70.6	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9
>= 7000	9.8	56.9	66.4	72.6	74.8	75.3	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7
>= 6000	10.0	57.5	67.0	73.2	75.4	75.9	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3
>= 5000	10.0	57.7	67.2	73.4	75.7	76.1	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5
>= 4500	10.0	58.3	67.9	74.2	76.4	76.9	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3
>= 4000	10.2	58.6	68.2	74.5	76.8	77.3	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
>= 3500	10.2	59.8	69.6	76.0	78.3	78.9	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3	79.3
>= 3000	10.5	60.2	69.9	76.4	78.8	79.4	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8
>= 2500	11.3	63.7	74.0	80.7	83.6	84.1	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6
>= 2000	12.1	67.0	77.7	85.0	88.0	88.5	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0	89.0
>= 1800	12.6	69.6	80.5	88.1	91.1	91.6	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2
>= 1500	12.7	69.9	80.9	88.5	91.5	92.2	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7
>= 1200	13.0	72.1	83.2	91.4	94.4	95.0	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
>= 1000	13.2	72.8	84.0	92.4	95.7	96.3	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0	97.0
>= 900	13.2	73.5	85.1	93.6	96.9	97.6	98.3	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
>= 800	13.2	73.7	85.3	93.8	97.0	97.8	98.5	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7	98.7
>= 700	13.2	73.7	85.3	93.8	97.3	98.1	98.8	99.0	99.0	99.1	99.1	99.1	99.1	99.1	99.1	99.1
>= 600	13.2	73.7	85.3	93.8	97.4	98.3	99.1	99.2	99.2	99.3	99.3	99.3	99.3	99.3	99.3	99.3
>= 500	13.2	73.8	85.5	94.1	97.6	98.6	99.4	99.5	99.5	99.6	99.6	99.6	99.6	99.6	99.6	99.6
>= 400	13.2	73.8	85.5	94.2	97.7	98.7	99.4	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7
>= 300	13.2	73.8	85.5	94.2	97.7	98.7	99.4	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7
>= 200	13.2	73.8	85.5	94.2	97.7	98.7	99.4	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7
>= 100	13.2	73.8	85.5	94.2	97.7	98.7	99.4	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7
>= 0	13.2	73.8	85.5	94.2	97.7	98.7	99.4	99.6	99.6	99.7	99.7	99.7	99.7	99.7	99.7	99.7

TOTAL NO. OF OBS : 1265



## 2 - CEILING VS VISIBILITY

013750 : NORFOLK, VA  
 PERIOD OF RECORD : 1945-1986  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
 MONTH : AUG  
 HOUR : 1600 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)									
	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=1	1/4	>=1/4
UNLIMIT	8.9	44.0	49.1	52.9	54.3	54.4	54.7	54.7	54.7	54.7
>=20000	9.8	48.8	54.9	58.9	60.5	60.6	60.9	60.9	60.9	60.9
>=18000	9.9	49.0	55.1	59.1	60.7	60.8	61.1	61.1	61.1	61.1
>=16000	10.0	49.1	55.2	59.2	60.8	60.9	61.2	61.2	61.2	61.2
>=14000	10.6	50.3	56.6	60.7	62.3	62.4	62.7	62.7	62.7	62.7
>=12000	10.9	51.7	58.0	62.2	63.8	64.0	64.3	64.3	64.3	64.3
>=10000	11.2	55.6	62.4	67.1	68.8	69.1	69.4	69.4	69.4	69.4
>= 9000	11.3	55.9	62.7	67.3	69.1	69.4	69.7	69.7	69.7	69.7
>= 8000	11.5	60.0	67.3	71.9	73.8	74.1	74.5	74.5	74.5	74.5
>= 7000	11.5	60.7	68.0	72.7	74.6	74.9	75.4	75.4	75.4	75.4
>= 6000	11.5	61.0	68.4	73.1	75.0	75.3	75.8	75.8	75.8	75.8
>= 5000	11.6	61.6	69.1	74.0	75.9	76.3	76.8	76.8	76.8	76.8
>= 4500	11.9	62.0	69.5	74.5	76.4	76.8	77.3	77.3	77.3	77.3
>= 4000	12.0	64.1	71.9	76.9	79.0	79.4	79.9	79.9	79.9	79.9
>= 3500	12.0	64.6	72.4	77.5	79.8	80.2	80.8	80.8	80.9	80.9
>= 3000	13.1	68.8	77.0	82.6	85.6	86.0	86.5	86.6	86.7	86.7
>= 2500	13.5	71.6	80.2	86.1	89.1	89.6	90.2	90.3	90.4	90.5
>= 2000	13.7	73.7	82.8	89.0	92.3	92.8	93.4	93.5	93.6	93.7
>= 1800	13.7	73.7	82.8	89.0	92.3	92.8	93.4	93.5	93.6	93.7
>= 1500	13.9	74.4	83.7	90.3	93.9	94.4	95.0	95.1	95.3	95.4
>= 1200	14.0	74.9	84.3	91.0	94.8	95.4	96.1	96.2	96.4	96.5
>= 1000	14.0	75.3	84.8	91.8	95.7	96.3	97.1	97.3	97.6	97.8
>= 900	14.0	75.3	84.9	91.8	95.8	96.4	97.3	97.5	97.8	98.1
>= 800	14.0	75.6	85.2	92.2	96.2	97.1	98.1	98.5	98.8	99.0
>= 700	14.0	75.7	85.3	92.2	96.2	97.3	98.3	98.7	99.1	99.4
>= 600	14.0	75.7	85.3	92.3	96.3	97.4	98.5	98.9	99.3	99.5
>= 500	14.0	75.8	85.4	92.4	96.4	97.4	98.6	99.1	99.5	99.8
>= 400	14.0	75.8	85.4	92.4	96.4	97.4	98.6	99.1	99.5	99.8
>= 300	14.0	75.8	85.4	92.4	96.4	97.4	98.6	99.1	99.5	99.8
>= 200	14.0	75.8	85.4	92.4	96.4	97.4	98.6	99.1	99.5	99.9
>= 100	14.0	75.8	85.4	92.4	96.4	97.4	98.6	99.1	99.5	100.0
>= 0	14.0	75.8	85.4	92.4	96.4	97.4	98.6	99.1	99.5	100.0

TOTAL NO. OF OBS : 1249



## 2 - CEILING VS VISIBILITY

013750 : NORFOLK, VA  
PERIOD OF RECORD : 1945-1986  
CLASS : ALL WEATHER  
CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : AUG  
HOUR : 1900 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)									
	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=1	1/2	>=1/4
UNLIMIT	7.1	44.7	51.4	55.6	57.8	58.6	58.9	58.9	58.9	59.0
>=20000	7.8	50.2	57.6	62.4	65.1	66.1	66.4	66.5	66.5	66.6
>=18000	7.8	50.2	57.6	62.4	65.1	66.1	66.4	66.5	66.5	66.6
>=16000	7.9	50.3	57.8	62.6	65.3	66.3	66.6	66.7	66.7	66.7
>=14000	8.3	51.0	58.6	63.4	66.1	67.1	67.4	67.5	67.5	67.6
>=12000	8.7	52.8	60.5	65.3	68.0	69.0	69.3	69.4	69.4	69.5
>=10000	9.0	56.3	65.2	70.2	73.3	74.3	74.6	74.7	74.8	74.8
>=9000	9.0	56.5	65.6	70.6	73.7	74.7	75.0	75.1	75.2	75.2
>=8000	9.0	59.3	69.2	74.9	78.2	79.2	80.0	80.0	80.1	80.2
>=7000	9.0	60.1	70.0	75.7	79.1	80.1	80.8	80.9	81.0	81.1
>=6000	9.0	60.5	70.5	76.2	79.6	80.7	81.4	81.5	81.6	81.6
>=5000	9.1	61.5	71.6	77.5	81.0	82.0	82.8	82.9	83.0	83.1
>=4500	9.1	61.8	71.9	77.8	81.3	82.4	83.1	83.3	83.3	83.4
>=4000	9.3	62.9	73.1	79.3	82.9	83.9	84.6	84.8	84.9	84.9
>=3500	9.3	63.4	73.7	80.0	83.6	84.6	85.3	85.5	85.6	85.7
>=3000	9.4	66.2	77.7	84.5	87.0	88.1	89.0	89.1	89.2	89.3
>=2500	9.4	67.6	79.5	86.3	90.7	92.2	93.2	93.4	93.5	93.6
>=2000	9.5	67.8	79.6	86.6	91.0	92.5	93.6	93.7	93.8	93.9
>=1800	9.5	68.5	80.5	87.6	92.3	93.8	94.9	95.1	95.2	95.2
>=1500	9.5	68.9	81.1	88.2	92.9	94.4	95.7	96.1	96.1	96.2
>=1200	9.5	69.2	81.4	89.0	93.7	95.4	96.7	97.0	97.1	97.2
>=1000	9.5	69.2	81.4	89.0	93.7	95.4	96.7	97.0	97.1	97.2
>=900	9.5	69.2	81.6	89.1	93.9	95.6	96.9	97.3	97.3	97.4
>=800	9.5	69.7	82.0	89.7	94.4	96.1	97.5	97.8	97.9	98.0
>=700	9.6	70.1	82.4	90.1	95.1	96.8	98.2	98.6	98.6	98.7
>=600	9.6	70.2	82.6	90.3	95.4	97.2	98.7	99.0	99.1	99.2
>=500	9.6	70.2	82.7	90.6	95.7	97.5	99.1	99.6	99.7	99.8
>=400	9.6	70.2	82.7	90.6	95.7	97.5	99.1	99.6	99.7	99.9
>=300	9.6	70.2	82.7	90.6	95.7	97.5	99.1	99.6	99.7	99.9
>=200	9.6	70.2	82.7	90.6	95.7	97.5	99.1	99.6	99.7	99.9
>=100	9.6	70.2	82.7	90.6	95.7	97.5	99.1	99.6	99.7	100.0
>=0	9.6	70.2	82.7	90.6	95.7	97.5	99.1	99.6	99.7	100.0

TOTAL NO. OF OBS : 1242



## 2 - CEILING VS VISIBILITY

D13750 : NORFOLK, VA  
PERIOD OF RECORD : 1945-1986  
CLASS : ALL WEATHER  
CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : AUG  
HOUR : 2200 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)									
	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=1	1/2	>=1/4
UNLIMIT	6.3	51.9	59.2	62.1	63.8	64.0	64.4	64.4	64.4	64.4
>=20000	6.5	54.8	62.6	65.6	67.7	67.8	68.2	68.2	68.2	68.2
>=18000	6.5	54.9	62.6	65.7	67.8	68.0	68.4	68.4	68.4	68.4
>=16000	6.5	55.1	62.8	65.8	68.0	68.2	68.4	68.6	68.6	68.6
>=14000	6.6	55.6	63.4	66.4	68.6	68.7	69.0	69.1	69.1	69.1
>=12000	6.9	57.9	65.8	68.8	70.9	71.1	71.3	71.5	71.5	71.5
>=10000	7.1	63.1	71.7	74.8	77.1	77.3	77.5	77.7	77.7	77.7
>=9000	7.2	63.4	71.9	75.0	77.3	77.5	77.7	77.9	77.9	77.9
>=8000	7.3	66.2	75.4	78.7	81.2	81.4	81.7	81.9	81.9	81.9
>=7000	7.3	67.1	76.3	79.6	82.2	82.4	82.7	82.8	82.8	82.8
>=6000	7.4	67.4	76.8	80.2	82.8	83.2	83.4	83.4	83.4	83.4
>=5000	7.4	68.2	77.7	81.2	83.7	83.9	84.2	84.4	84.4	84.4
>=4500	7.4	68.3	77.9	81.4	84.0	84.1	84.4	84.6	84.6	84.6
>=4000	7.5	69.8	79.6	83.2	85.9	86.0	86.4	86.5	86.5	86.5
>=3500	7.6	70.7	80.5	84.2	86.9	87.1	87.4	87.5	87.5	87.5
>=3000	7.6	72.6	82.8	86.8	89.7	89.9	90.3	90.4	90.4	90.4
>=2500	7.7	73.4	83.7	87.9	90.9	91.1	91.6	91.8	91.8	91.8
>=2000	7.8	74.9	85.3	89.7	92.7	92.9	93.5	93.6	93.6	93.6
>=1800	7.8	75.0	85.5	89.9	92.8	93.1	93.6	93.8	93.8	93.8
>=1500	8.0	76.0	86.5	91.1	94.3	94.5	95.2	95.4	95.4	95.4
>=1200	8.0	76.4	87.0	91.9	95.0	95.2	96.0	96.2	96.2	96.2
>=1000	8.0	76.9	87.6	92.5	95.7	95.9	96.8	97.0	97.0	97.0
>=900	8.0	77.2	87.9	93.0	96.2	96.4	97.4	97.6	97.6	97.6
>=800	8.0	77.6	88.3	93.5	96.8	97.0	98.1	98.3	98.3	98.3
>=700	8.1	77.7	88.5	93.7	97.0	97.3	98.3	98.6	98.6	98.6
>=600	8.1	77.9	88.7	93.9	97.3	97.5	98.6	98.9	98.9	98.9
>=500	8.1	78.1	89.1	94.3	97.6	98.0	99.1	99.5	99.5	99.5
>=400	8.1	78.2	89.1	94.3	97.7	98.1	99.4	99.9	99.9	99.9
>=300	8.1	78.2	89.1	94.3	97.7	98.1	99.4	99.9	99.9	99.9
>=200	8.1	78.2	89.1	94.3	97.7	98.1	99.4	99.9	99.9	99.9
>=100	8.1	78.2	89.1	94.3	97.7	98.1	99.4	99.9	99.9	99.9
>=0	8.1	78.2	89.1	94.3	97.7	98.1	99.4	99.9	99.9	99.9

TOTAL NO. OF OBS : 1253



## 2 - CEILING VS VISIBILITY

013750 : NORFOLK, VA  
PERIOD OF RECORD : 1945-1986  
CLASS : ALL WEATHER  
CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : AUG  
HOUR : ALL

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)									
	>=10	>=6	>=5	>=4	>=3	>=2 1/2	>=2	>=1 1/2	>=1	>=1/4
UNLIMIT	5.9	42.9	50.3	54.8	57.6	58.2	58.9	59.2	59.3	59.3
>=20000	6.4	46.7	54.8	59.7	62.8	63.5	64.2	64.5	64.6	64.7
>=18000	6.5	46.8	54.9	59.8	62.9	63.6	64.3	64.7	64.7	64.7
>=16000	6.5	46.9	55.0	59.9	63.0	63.7	64.5	64.8	64.9	64.8
>=14000	6.8	47.5	55.7	60.7	63.9	64.6	65.3	65.6	65.7	64.9
>=12000	7.0	49.2	57.6	62.8	66.0	66.7	67.4	67.8	67.8	65.8
>=10000	7.3	53.2	62.2	67.7	71.1	71.9	72.7	73.1	73.2	67.9
>= 8000	7.3	53.4	62.4	67.9	71.4	72.1	73.0	73.3	73.4	67.9
>= 6000	7.4	56.8	66.6	72.5	76.2	77.0	77.9	78.3	78.4	73.5
>= 4000	7.5	57.6	67.4	73.4	77.1	77.9	78.9	79.2	79.3	73.5
>= 2000	7.6	58.0	67.9	73.9	77.6	78.5	79.4	79.8	79.9	78.4
>= 500	7.6	58.5	68.5	74.7	78.4	79.3	80.2	80.6	80.7	79.4
>= 400	7.7	58.9	68.9	75.0	78.8	79.6	80.6	81.0	81.1	79.9
>= 300	7.8	60.1	70.3	76.6	80.4	81.3	82.2	82.6	82.7	80.8
>= 200	7.8	60.6	70.8	77.1	81.0	81.9	82.9	83.2	83.3	81.1
>= 100	8.1	62.8	73.4	80.0	84.2	85.1	86.1	86.5	86.6	82.8
>= 50	8.3	64.4	75.2	82.0	86.3	87.2	88.3	88.7	88.8	83.4
>= 20	8.5	65.9	77.1	84.1	88.4	89.5	90.6	91.0	91.1	86.6
>= 10	8.5	66.1	77.3	84.3	88.7	89.7	90.9	91.3	91.4	88.9
>= 5	8.7	67.4	78.8	86.0	90.5	91.6	92.9	93.3	93.4	91.2
>= 2	8.8	68.1	79.7	87.1	91.8	92.9	94.2	94.6	94.7	91.5
>= 1	8.8	68.8	80.6	88.2	93.0	94.1	95.5	95.9	96.0	93.5
>= 0.5	8.8	69.0	80.9	88.6	93.4	94.5	96.0	96.4	96.5	94.8
>= 0.2	8.8	69.5	81.5	89.2	94.1	95.3	96.8	97.3	97.5	96.7
>= 0.1	8.9	69.8	81.8	89.6	94.6	95.8	97.4	97.9	98.1	96.7
>= 0.05	8.9	70.0	82.1	89.9	95.0	96.2	97.9	98.4	98.6	97.6
>= 0.02	8.9	70.1	82.4	90.3	95.4	96.7	98.4	99.0	99.2	98.2
>= 0.01	8.9	70.2	82.4	90.4	95.5	96.8	98.6	99.2	99.4	98.7
>= 0.005	8.9	70.2	82.5	90.4	95.5	96.8	98.6	99.2	99.5	99.4
>= 0.002	8.9	70.2	82.5	90.4	95.5	96.8	98.6	99.3	99.5	99.6
>= 0.001	8.9	70.2	82.5	90.4	95.5	96.8	98.6	99.3	99.5	99.7
>= 0	8.9	70.2	82.5	90.4	95.5	96.8	98.6	99.3	99.5	99.9
>= 0	8.9	70.2	82.5	90.4	95.5	96.8	98.6	99.3	99.5	100.0

TOTAL NO. OF OBS : 10095



# 1 - SURFACE WINDS

013750 : NORFOLK, VA  
 PERIOD OF RECORD : 1945-1986  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
 MONTH : SEP  
 HOUR : 0100 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

DIR.	SPEED (KNOTS)																TOTAL	MEAN
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>=56	2	3	4	5	6		
N	.1	.6	1.4	1.7	.6	.1	.1	.3	.0	.0	.0	.0	.0	.0	.0	.0	4.6	11.8
NNE	.2	.6	1.3	2.9	1.0	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.5	13.5
NE	.4	1.8	2.9	1.7	1.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.3	10.5
ENE	.8	1.5	1.7	1.3	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.8	8.9
E	1.2	2.1	1.6	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.2	5.8
ESE	1.0	1.5	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.1	4.9
SE	1.1	1.2	.6	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.9	4.8
SSE	1.6	1.9	.6	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.2	4.7
S	2.1	3.7	3.1	.3	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.5	6.1
SSW	1.5	3.2	7.1	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14.0	7.9
SW	1.0	2.1	4.4	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.6	7.4
WSW	.4	1.3	.9	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.6	6.0
W	.6	.6	.6	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9	5.5
WNW	.2	.4	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	6.6
NW	.2	1.1	.7	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.5	7.1
NNW	.3	.9	1.9	1.2	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.5	9.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14.6	.0
ALL	12.7	24.5	29.5	13.9	3.6	1.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	6.9

TOTAL NO. OF OBS : 1259

NOTES :  
 \* = PERCENT < .05



# 1 - SURFACE WINDS

013750 : NORFOLK, VA  
 PERIOD OF RECORD : 1945-1986  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
 MONTH : SEP  
 HOUR : 0400 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

16 PT. DIR.	SPEED (KNOTS)																TOTAL	MEAN WIND SPEED
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>=56	2	3	4	5	6		
N	.1	.6	1.5	2.5	.4	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	5.3	12.1
NNE	.2	1.0	1.2	3.4	1.3	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.8	13.0
NE	.6	1.7	2.7	2.9	1.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.3	10.6
ENE	.4	1.5	1.9	1.2	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.5	9.2
E	1.1	1.7	1.7	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.7	6.0
ESE	1.1	.4	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0	4.2
SE	.6	1.2	.6	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.6	5.7
SSE	1.3	1.5	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.7	4.7
S	1.8	2.6	1.2	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.1	5.4
SSW	1.4	3.3	5.2	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11.1	7.1
SW	1.0	3.7	4.1	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.4	6.9
WSW	.9	2.1	1.6	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.8	6.0
W	.2	1.0	.9	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.4	6.7
WNW	.2	.6	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	6.8
NW	.2	1.1	1.7	.3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.5	8.0
NNW	.5	1.1	2.2	2.2	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.3	9.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14.1	.0
ALL	11.7	25.2	28.3	15.7	3.5	1.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	100.0	7.0

TOTAL NO. OF OBS : 1260

NOTES :  
 \* = PERCENT < .05



# 1 - SURFACE WINDS

013750 : NORFOLK, VA  
 PERIOD OF RECORD : 1945-1986  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
 MONTH : SEP  
 HOUR : 0700 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

DIR.	SPEED (KNOTS)																TOTAL	MEAN WIND SPEED
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>=56	2	1	2	1	2		
N	.5	1.0	2.0	2.5	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.6	10.1
NNE	.3	.4	2.0	3.7	1.3	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.5	13.3
NE	.3	1.5	3.5	3.6	1.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10.4	11.0
ENE	.5	1.9	2.6	1.7	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.2	9.0
E	.6	2.1	1.1	.6	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.4	6.6
ESE	.6	.7	.7	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.3	6.2
SE	.6	.6	.8	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0	6.3
SSE	1.0	1.0	.6	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.6	4.9
S	1.0	1.9	1.7	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.1	6.2
SSW	1.7	3.6	3.6	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10.1	6.7
SW	1.3	3.7	3.9	1.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10.0	6.9
WSW	.6	2.9	1.9	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.6	6.2
W	.4	1.2	1.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.0	6.9
WNW	.3	.9	1.0	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.6	8.2
NW	.3	1.0	1.7	.5	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.7	7.8
NNW	.2	1.4	2.8	1.9	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.6	9.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.4	.0
ALL	10.5	25.7	31.0	18.2	4.0	1.0	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	100.0	7.6

TOTAL NO. OF OBS : 1260

NOTES :  
 \* = PERCENT < .05



# 1 - SURFACE WINDS

013750 : NORFOLK, VA  
 PERIOD OF RECORD : 1945-1986  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
 MONTH : SEP  
 HOUR : 1000 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

DIR.	SPEED (KNOTS)																TOTAL	MEAN
	16-21	1	2	3	4	5	6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>56	%	WIND
N	1.0	3.7	3.3	2.9	.9	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11.7	9.0
NNE	.5	2.5	5.0	5.2	1.7	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15.4	11.0
NE	.2	1.2	3.7	3.3	.9	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.4	10.9
ENE	.1	1.4	4.6	2.5	.6	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.4	10.1
E	.3	1.6	2.6	1.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.6	8.1
ESE	.2	.6	.6	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	8.2
SE	.2	.4	.3	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6	8.4
SSE	.2	1.0	.3	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9	6.5
S	.4	1.3	1.7	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.7	8.2
SSW	.5	1.9	3.7	1.9	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.1	8.4
SW	.5	2.1	2.3	1.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.3	7.9
WSW	.8	2.5	4.0	1.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.7	7.7
W	.7	1.8	2.1	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.9	7.0
WNW	.2	1.0	1.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.5	7.7
NW	.1	.4	.5	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	9.8
NNW	.7	1.7	1.1	1.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.1	7.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6	.0
ALL	6.4	25.1	37.1	23.9	4.8	1.0	.1	.1	.1	.0	.0	.0	.1	.0	.0	.0	103.0	8.9

TOTAL NO. OF OBS : 1260

NOTES : \* = PERCENT < .05



# 1 - SURFACE WINDS

013750 : NORFOLK, VA  
 PERIOD OF RECORD : 1945-1986  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
 MONTH : SEP  
 HOUR : 1300 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>=56	TOTAL	MEAN
												%	WIND SPEED
N	.9	2.4	2.8	3.4	.7	.1	.0	.0	.0	.0	.0	10.2	9.8
NNE	.4	3.6	7.7	4.4	1.3	.2	.0	.0	.0	.0	.0	17.5	9.8
NE	.3	2.9	3.7	3.2	.6	.2	.1	.0	.0	.0	.0	10.9	9.8
ENE	.2	1.7	7.2	3.3	.6	.1	.1	.0	.0	.0	.0	13.2	9.8
E	.6	1.8	4.9	1.3	.1	.0	.0	.0	.0	.0	.0	8.7	8.2
ESE	.1	.6	.6	.7	.2	.0	.0	.0	.0	.0	.0	2.1	9.2
SE	.1	.1	.5	.2	.1	.0	.0	.0	.0	.0	.0	1.0	9.3
SSE	.1	.2	.6	.2	.1	.0	.0	.0	.0	.0	.0	1.1	9.1
S	.1	.8	1.0	1.0	.0	.1	.0	.0	.0	.0	.0	2.9	9.5
SSW	.2	1.1	3.5	2.6	.1	.0	.0	.0	.0	.0	.0	7.5	9.6
SW	.2	1.7	2.7	1.4	.1	.0	.0	.0	.0	.0	.0	6.1	8.7
WSW	.2	1.3	3.0	1.6	.2	.0	.0	.0	.0	.0	.0	6.3	8.9
W	.3	1.9	2.5	.9	.1	.0	.0	.0	.0	.0	.0	5.7	7.7
WNW	.2	.9	1.0	.2	.0	.1	.0	.0	.0	.0	.0	2.5	7.5
NW	.1	.7	.9	.2	.2	.0	.0	.0	.0	.0	.0	2.1	8.3
MNW	.1	.4	.5	.6	.1	.0	.0	.0	.0	.0	.0	1.6	9.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.0
ALL	4.0	22.1	42.9	25.4	4.1	.6	.2	.0	.0	.0	.0	100.0	9.2

TOTAL NO. OF OBS : 1260

NOTES :  
 \* = PERCENT < .05



# 1 - SURFACE WINDS

013750 : NORFOLK, VA  
 PERIOD OF RECORD : 1945-1986  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
 MONTH : SEP  
 HOUR : 1600 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

DIR.	1-5	6-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>=56	TOTAL	MEAN WIND SPEED
N	.5	.7	1.5	.6	.2	.1	.0	.0	.0	.0	6.4	10.4
NNE	.5	2.4	3.2	.6	.0	.1	.0	.0	.0	.0	10.2	9.7
NE	.5	2.5	2.9	.8	.3	.0	.0	.0	.0	.0	10.7	10.0
ENE	.9	4.5	2.8	.6	.2	.1	.0	.0	.0	.0	15.8	8.6
E	1.3	4.6	1.3	.2	.0	.0	.0	.0	.0	.0	13.3	7.3
ESE	.2	1.3	1.0	.1	.0	.0	.0	.0	.0	.0	4.8	8.6
SE	.0	.8	.8	.2	.0	.0	.0	.0	.0	.0	3.9	9.6
SSE	.1	.5	1.2	.1	.0	.0	.0	.0	.0	.0	3.3	9.9
S	.1	1.2	.8	.1	.0	.0	.0	.0	.0	.0	4.4	8.4
SSW	.1	.9	2.6	.2	.0	.0	.0	.0	.0	.0	7.4	10.1
SM	.3	1.0	1.3	.0	.0	.0	.0	.0	.0	.0	4.8	8.7
WSW	.2	1.0	1.0	.0	.0	.0	.0	.0	.0	.0	3.3	8.4
W	.4	1.8	.5	.0	.0	.0	.0	.0	.0	.0	4.5	7.1
WNW	.1	.4	.2	.0	.0	.0	.0	.0	.0	.0	1.7	7.7
NW	.1	.6	.6	.0	.0	.0	.0	.0	.0	.0	1.9	8.8
NNW	.2	.4	.8	.2	.0	.0	.0	.0	.0	.0	2.4	9.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	.0
ALL	5.2	24.6	41.8	3.7	.6	.2	.0	.0	.0	.0	100.0	8.8

TOTAL NO. OF OBS : 1260

NOTES : \* = PERCENT < .05



# 1 - SURFACE WINDS

013750 : NORFOLK, VA  
 PERIOD OF RECORD : 1945-1986  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
 MONTH : SEP  
 HOUR : 1900 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

16 PT. DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>56	TOTAL	MEAN WIND SPEED
N	.2	1.0	2.2	1.7	.6	.2	.0	.0	.0	.0	.0	5.8	10.4
NNE	.2	1.1	1.7	2.5	.6	.2	.0	.0	.0	.0	.0	6.5	11.6
NE	.4	1.0	2.5	1.8	.7	.5	.0	.0	.0	.0	.0	6.8	11.2
ENE	1.5	2.9	3.0	1.7	.5	.2	.0	.0	.0	.0	.0	9.9	8.2
E	3.0	4.3	2.7	.4	.1	.0	.0	.0	.0	.0	.0	10.5	5.4
ESE	1.8	3.6	1.0	.2	.1	.0	.0	.0	.0	.0	.0	6.7	5.0
SE	2.7	4.9	3.3	.6	.0	.0	.0	.0	.0	.0	.0	11.5	5.6
SSE	1.8	4.7	3.9	1.2	.0	.0	.0	.0	.0	.0	.0	11.6	6.6
S	.9	3.0	2.1	1.1	.1	.0	.0	.0	.0	.0	.0	7.2	6.9
SSW	.5	3.1	2.5	1.5	.0	.0	.0	.0	.0	.0	.0	7.6	7.5
SW	.3	1.3	1.1	.1	.1	.0	.0	.0	.0	.0	.0	2.9	6.7
WSW	.5	.6	.6	.1	.0	.0	.0	.0	.0	.0	.0	1.7	5.2
W	.0	.8	.4	.2	.0	.0	.0	.0	.0	.0	.0	1.4	6.9
WNW	.1	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.6	6.5
NW	.2	.4	.8	.2	.0	.0	.0	.0	.0	.0	.0	1.7	7.3
NNW	.1	.6	.9	.6	.0	.0	.0	.0	.0	.0	.0	2.1	8.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.6	.0
ALL	14.3	33.5	28.8	13.8	2.7	1.1	.2	.0	.0	.0	.0	100.0	7.0

TOTAL NO. OF OBS : 1258

NOTES :  
 \* PERCENT < .05



# 1 - SURFACE WINDS

013750 : NORFOLK, VA  
 PERIOD OF RECORD : 1945-1986  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
 MONTH : SEP  
 HOUR : 2200 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

16 PT. DIR.	1	2	3	4	5	6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>=56	TOTAL	MEAN WIND SPEED
N	.5	.7	1.6	1.4	.6	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	5.0	10.8
NNE	.3	.6	.8	2.3	.6	.5	.3	.0	.0	.0	.0	.0	.0	.0	.0	5.5	13.3
NE	.5	.9	2.5	1.7	.6	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.5	10.5
ENE	1.3	2.4	3.3	1.8	.6	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.6	8.8
E	.7	2.3	1.7	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.0	6.1
ESE	1.4	1.3	.6	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.4	4.7
SE	2.5	1.9	1.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.6	4.6
SSE	2.6	3.7	1.8	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.3	5.1
S	2.8	5.2	5.8	2.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15.9	6.9
SSW	.8	2.5	3.9	2.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10.0	8.4
SW	.6	1.5	1.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.6	6.5
WSW	.3	.7	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	5.3
W	.2	.7	.6	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	6.4
WNW	.2	.4	.6	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	8.3
NW	.2	.4	.6	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	7.3
NNW	.2	.8	1.1	1.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.3	9.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12.5	.0
ALL	15.0	25.9	27.1	14.8	2.7	1.6	.4	.0	.0	.0	.0	.0	.0	.0	.0	100.0	6.8

TOTAL NO. OF OBS : 1257

NOTES :  
 \* = PERCENT < .05



# 1 - SURFACE WINDS

013750 : NORFOLK, VA  
 PERIOD OF RECORD : 1945-1986  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV.: 15 FT  
 MONTH : SEP  
 HOUR : ALL

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

16 PT.		SPEED (KNOTS)										TOTAL		MEAN					
DIR.		1	2	3	4	5	6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>=56	%		
N						.5	1.4	2.2	2.2	.6	.1	.0*	.0*	.0	.0	.0	7.0	10.3	
NNE						.3	1.5	2.9	3.5	1.1	.4	.1	.0*	.0	.0	.0	9.7	11.4	
NE						.4	1.7	3.1	2.6	.9	.3	.0*	.0	.0	.0	.0	9.1	10.5	
ENE						.7	2.2	3.9	2.0	.5	.2	.0*	.0*	.0	.0	.0	9.5	9.1	
E						1.1	2.6	2.8	.7	.1	.0*	.0	.0	.0	.0	.0	7.2	6.8	
ESE						.8	1.2	.8	.3	.0*	.0*	.0	.0	.0	.0	.0	3.3	6.2	
SE						1.0	1.4	1.2	.3	.0*	.0	.0	.0	.0	.0	.0	3.9	6.2	
SSE						1.1	1.8	1.2	.4	.0*	.0	.0	.0	.0	.0	.0	4.6	6.1	
S						1.2	2.5	2.3	.9	.1	.0*	.0	.0	.0	.0	.0	7.0	6.9	
SSW						.8	2.4	4.1	2.0	.0*	.0	.0	.0	.0	.0	.0	9.5	8.1	
SW						.7	2.1	2.7	.9	.0*	.0	.0	.0	.0	.0	.0	6.5	7.5	
WSW						.5	1.6	1.7	.6	.0*	.0	.0	.0	.0	.0	.0	4.3	7.2	
W						.3	1.2	1.3	.3	.0*	.0	.0	.0	.0	.0	.0	3.2	7.0	
WNW						.2	.6	.7	.2	.0*	.0*	.0	.0*	.0	.0	.0	1.7	7.6	
NW						.2	.7	1.0	.3	.0*	.0*	.0*	.0	.0	.0	.0	2.3	8.0	
NNW						.3	.9	1.4	1.2	.1	.0*	.0*	.0	.0	.0	.0	4.0	9.1	
VAR						.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CLM						.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.5	.0	
ALL		10.0	25.8	33.3	18.5	3.6	1.0	.2	.0*	.0	.0	.0	.0	.0	.0	.0	100.0	7.8	

TOTAL NO. OF OBS : 10074

NOTES :  
 \* = PERCENT < .05



013750 : NORFOLK, VA  
PERIOD OF RECORD : 1945-1986  
CLASS : ALL WEATHER  
CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : SEP  
HOUR : 0100 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

VISIBILITY (STATUTE MILES)

	>=10	>=6	>=5	>=4	>=3	>=2	1/2 >=2	>=1	1/2 >=1	1/4 >=1	>=1	>=3/4	>=5/8	>=1/2	>=5/16	>=1/4	>=0
CEILING																	
UNLIMIT	8.7	56.5	61.1	63.7	64.8	65.1	65.5	65.7	65.7	65.7	65.9	65.9	65.9	65.9	65.9	66.0	66.0
>=20000	9.0	59.2	64.1	67.0	68.0	68.4	68.8	69.0	69.0	69.0	69.2	69.2	69.2	69.2	69.2	69.3	69.3
>=18000	9.0	59.2	64.1	67.0	68.0	68.4	68.8	69.0	69.0	69.0	69.2	69.2	69.2	69.2	69.2	69.3	69.3
>=16000	9.0	59.3	64.1	67.0	68.1	68.5	68.9	69.1	69.1	69.1	69.3	69.3	69.3	69.3	69.3	69.4	69.4
>=14000	9.3	59.7	64.5	67.4	68.5	68.9	69.3	69.5	69.5	69.5	69.7	69.7	69.7	69.7	69.7	69.8	69.8
>=12000	9.5	60.7	65.7	68.6	69.7	70.1	70.5	70.7	70.7	70.7	70.9	70.9	70.9	70.9	70.9	71.0	71.0
>=10000	9.8	63.7	69.2	72.4	73.6	74.0	74.4	74.5	74.5	74.5	74.8	74.8	74.8	74.8	74.8	74.9	74.9
>= 9000	9.8	63.9	69.4	72.6	73.7	74.1	74.5	74.7	74.7	74.7	74.9	74.9	74.9	74.9	74.9	75.0	75.0
>= 8000	9.9	66.9	72.6	76.0	77.1	77.5	77.9	78.1	78.1	78.1	78.3	78.3	78.3	78.3	78.3	78.4	78.4
>= 7000	10.1	67.5	73.3	76.7	77.9	78.3	78.7	78.9	78.9	78.9	79.1	79.1	79.1	79.1	79.1	79.2	79.2
>= 6000	10.1	67.8	73.7	77.0	78.2	78.6	79.0	79.2	79.2	79.2	79.5	79.5	79.5	79.5	79.5	79.5	79.5
>= 5000	10.2	68.8	74.6	78.0	79.2	79.6	80.0	80.2	80.2	80.2	80.4	80.4	80.4	80.4	80.4	80.5	80.5
>= 4500	10.3	69.4	75.2	78.6	79.9	80.3	80.7	80.8	80.8	80.8	81.1	81.1	81.1	81.1	81.1	81.1	81.1
>= 4000	10.5	70.9	76.9	80.4	81.6	82.0	82.4	82.6	82.6	82.6	82.8	82.8	82.8	82.8	82.8	82.9	82.9
>= 3500	10.6	72.1	78.1	81.6	82.8	83.2	83.6	83.8	83.8	84.0	84.0	84.0	84.0	84.0	84.0	84.1	84.1
>= 3000	10.7	74.5	80.6	84.6	85.9	86.3	86.7	86.9	86.9	86.9	87.1	87.1	87.1	87.1	87.1	87.2	87.2
>= 2500	11.0	75.7	82.0	86.1	87.3	87.8	88.2	88.3	88.3	88.3	88.6	88.6	88.6	88.6	88.6	88.6	88.6
>= 2000	11.0	77.4	83.7	87.8	89.1	89.5	90.1	90.2	90.2	90.2	90.5	90.5	90.5	90.5	90.5	90.6	90.6
>= 1800	11.0	77.6	84.0	88.1	89.4	89.8	90.3	90.6	90.6	90.6	90.8	90.8	90.8	90.8	90.8	90.9	90.9
>= 1500	11.0	78.4	84.9	89.2	90.5	90.9	91.5	91.8	91.8	91.8	92.0	92.0	92.0	92.0	92.0	92.1	92.1
>= 1200	11.0	79.0	85.9	90.3	91.6	92.1	92.7	93.0	93.0	93.0	93.2	93.2	93.2	93.2	93.2	93.3	93.3
>= 1000	11.0	79.6	86.7	91.2	92.6	93.1	94.0	94.3	94.3	94.3	94.5	94.5	94.5	94.5	94.5	94.6	94.6
>= 900	11.0	79.9	87.0	91.8	93.2	93.8	94.8	95.1	95.1	95.1	95.3	95.3	95.3	95.3	95.3	95.4	95.4
>= 800	11.0	80.6	88.2	93.3	94.8	95.4	96.5	96.8	96.8	96.8	97.0	97.0	97.0	97.0	97.0	97.1	97.1
>= 700	11.0	80.8	88.6	93.7	95.2	95.9	96.9	97.3	97.3	97.3	97.5	97.5	97.5	97.5	97.5	97.6	97.6
>= 600	11.0	80.9	88.8	94.0	95.7	96.4	97.4	97.7	97.7	97.7	98.0	98.0	98.0	98.0	98.0	98.1	98.1
>= 500	11.0	81.1	89.1	94.6	96.5	97.1	98.1	98.5	98.5	98.5	98.7	98.8	98.8	98.8	98.8	98.9	98.9
>= 400	11.0	81.1	89.2	94.8	96.9	97.6	98.8	99.1	99.1	99.1	99.4	99.5	99.5	99.5	99.5	99.6	99.6
>= 300	11.0	81.1	89.2	94.8	97.0	97.7	98.9	99.2	99.2	99.2	99.4	99.7	99.7	99.7	99.7	99.8	99.8
>= 200	11.0	81.1	89.3	94.9	97.1	97.7	99.0	99.4	99.4	99.4	99.6	99.8	99.8	99.8	99.8	99.9	99.9
>= 100	11.0	81.1	89.3	94.9	97.1	97.7	99.0	99.4	99.4	99.4	99.6	99.8	99.8	99.8	99.8	99.9	99.9
>= 0	11.0	81.1	89.3	94.9	97.1	97.7	99.0	99.4	99.4	99.4	99.7	99.9	99.9	99.9	99.9	100.0	100.0

TOTAL NO. OF OBS : 1241



## 2 - CEILING VS VISIBILITY

013750 : NORFOLK, VA  
PERIOD OF RECORD : 1945-1986  
CLASS : ALL WEATHER  
CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : SEP  
HOUR : 0400 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

## VISIBILITY (STATUTE MILES)

CEILING	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=1	1/4	>=1	>=3/4	>=5/8	>=1/2	>=5/16	>=1/4	>=0
UNLIMIT	6.9	50.5	55.5	58.8	60.6	61.2	61.8	62.1	62.1	62.2	62.4	62.4	62.4	62.5	62.5	62.6
>=20000	7.1	52.5	57.6	61.1	63.1	63.7	64.3	64.6	64.6	64.7	64.9	64.9	64.9	65.0	65.0	65.1
>=18000	7.1	52.5	57.6	61.1	63.1	63.7	64.3	64.6	64.6	64.7	64.9	64.9	64.9	65.0	65.0	65.1
>=16000	7.1	52.7	57.8	61.2	63.3	63.9	64.5	64.8	64.8	64.9	65.0	65.0	65.1	65.2	65.2	65.3
>=14000	7.4	53.0	58.1	61.6	63.6	64.2	64.8	65.1	65.1	65.2	65.3	65.3	65.4	65.5	65.5	65.6
>=12000	7.6	54.4	59.6	63.0	65.0	65.7	66.2	66.5	66.5	66.6	66.8	66.8	66.9	66.9	66.9	67.0
>=10000	8.0	57.7	63.3	66.8	68.9	69.5	70.1	70.4	70.4	70.5	70.6	70.6	70.7	70.8	70.8	70.9
>= 9000	8.0	57.9	63.5	66.9	69.0	69.7	70.2	70.5	70.5	70.6	70.8	70.8	70.9	70.9	70.9	71.0
>= 8000	8.2	61.5	67.3	71.0	73.3	74.0	74.5	74.9	74.9	74.9	75.1	75.1	75.2	75.3	75.3	75.3
>= 7000	8.2	62.0	67.7	71.6	73.8	74.5	75.1	75.4	75.4	75.5	75.7	75.7	75.8	75.8	75.8	75.9
>= 6000	8.3	62.2	68.0	71.8	74.1	74.8	75.3	75.7	75.7	75.7	75.9	75.9	76.0	76.1	76.1	76.1
>= 5000	8.5	63.2	68.9	72.8	75.1	75.8	76.4	76.7	76.7	76.8	76.9	76.9	77.0	77.1	77.1	77.2
>= 4500	8.6	63.9	69.7	73.6	75.9	76.6	77.2	77.5	77.5	77.6	77.7	77.7	77.8	77.9	77.9	78.0
>= 4000	8.9	65.7	71.7	75.6	78.0	78.7	79.3	79.6	79.6	79.7	79.8	79.8	79.9	80.0	80.0	80.1
>= 3500	8.9	66.9	73.0	76.9	79.3	80.0	80.5	80.9	80.9	80.9	81.1	81.1	81.2	81.3	81.3	81.3
>= 3000	9.0	68.8	75.1	79.0	81.5	82.2	82.8	83.1	83.1	83.2	83.3	83.3	83.4	83.5	83.5	83.6
>= 2500	9.0	69.7	76.1	80.1	82.6	83.3	83.9	84.2	84.2	84.3	84.5	84.5	84.5	84.6	84.6	84.7
>= 2000	9.1	71.0	77.7	81.7	84.3	85.0	85.6	85.9	85.9	86.0	86.1	86.1	86.2	86.3	86.3	86.4
>= 1800	9.1	71.4	78.1	82.1	84.7	85.4	86.0	86.3	86.3	86.4	86.5	86.5	86.6	86.7	86.7	86.8
>= 1500	9.2	72.9	79.7	83.8	86.5	87.3	88.0	88.3	88.3	88.4	88.6	88.6	88.6	88.7	88.7	88.8
>= 1200	9.3	74.1	81.2	85.4	88.3	89.2	89.8	90.2	90.2	90.2	90.4	90.4	90.5	90.6	90.6	90.6
>= 1000	9.4	75.2	82.6	87.1	90.2	91.0	91.7	92.0	92.0	92.1	92.2	92.2	92.3	92.4	92.4	92.5
>= 900	9.4	75.7	83.2	87.8	91.0	91.9	92.6	93.0	93.0	93.0	93.2	93.2	93.3	93.4	93.4	93.4
>= 800	9.5	76.6	84.5	89.4	92.6	93.5	94.2	94.6	94.6	94.6	94.8	94.8	94.9	95.0	95.0	95.0
>= 700	9.5	76.7	84.7	89.8	93.3	94.2	95.0	95.3	95.3	95.4	95.5	95.5	95.6	95.7	95.7	95.8
>= 600	9.5	76.9	84.9	90.2	93.8	94.8	95.8	96.1	96.1	96.2	96.3	96.3	96.4	96.5	96.5	96.6
>= 500	9.5	77.1	85.3	90.6	94.3	95.4	96.6	97.0	97.0	97.2	97.4	97.4	97.6	97.7	97.7	97.8
>= 400	9.5	77.1	85.3	90.9	94.6	95.8	97.0	97.5	97.5	97.7	97.8	97.8	98.2	98.2	98.2	98.3
>= 300	9.5	77.2	85.5	91.1	95.0	96.2	97.6	98.1	98.1	98.2	98.5	98.5	98.8	98.9	98.9	99.0
>= 200	9.5	77.2	85.5	91.2	95.1	96.2	97.8	98.2	98.2	98.6	98.8	98.8	99.1	99.2	99.2	99.4
>= 100	9.5	77.2	85.5	91.2	95.1	96.2	97.8	98.2	98.2	98.6	98.9	98.9	99.3	99.4	99.5	99.7
>= 0	9.5	77.2	85.5	91.2	95.1	96.2	97.8	98.2	98.2	98.6	98.9	98.9	99.3	99.4	99.5	100.0

TOTAL NO. OF OBS : 1249



## 2 - CEILING VS VISIBILITY

013750 : NORFOLK, VA  
PERIOD OF RECORD : 1945-1986  
CLASS : ALL WEATHER  
CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : SEP  
HOUR : 0700 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)															
	>=10	>=6	>=5	>=4	>=3	>=2 1/2	>=2	>=1 1/2	>=1 1/4	>=1	>=3/4	>=5/8	>=1/2	>=5/16	>=1/4	>=0
UNLIMIT	4.2	33.4	39.4	44.5	48.3	49.0	50.3	51.1	51.2	51.6	51.9	51.9	52.0	52.0	52.1	52.2
>=20000	4.7	35.9	42.5	47.6	51.9	52.8	54.1	55.0	55.1	55.5	55.8	55.8	56.0	56.0	56.2	56.3
>=18000	4.7	35.9	42.5	47.6	51.9	52.8	54.1	55.0	55.1	55.5	55.8	55.8	56.0	56.0	56.2	56.3
>=16000	4.7	36.0	42.5	47.6	52.0	52.8	54.1	55.1	55.2	55.6	55.8	55.8	56.1	56.1	56.3	56.3
>=14000	5.0	36.9	43.4	48.6	53.0	53.9	55.2	56.2	56.3	56.7	56.9	56.9	57.1	57.1	57.3	57.4
>=12000	5.1	38.1	44.9	50.1	54.6	55.6	56.9	57.9	58.0	58.4	58.6	58.6	58.8	58.8	59.0	59.1
>=10000	5.4	42.1	49.9	55.7	60.6	61.7	63.3	64.4	64.4	65.0	65.3	65.3	65.6	65.6	65.7	65.8
>= 8000	5.4	42.1	49.9	55.7	60.6	61.7	63.3	64.4	64.4	65.0	65.3	65.3	65.6	65.6	65.7	65.8
>= 6000	5.8	45.8	54.1	60.3	65.7	66.9	68.7	69.7	69.8	70.5	70.8	70.8	71.0	71.0	71.2	71.3
>= 4000	6.1	46.8	55.2	61.4	67.0	68.2	70.0	71.0	71.1	71.8	72.1	72.1	72.3	72.3	72.5	72.6
>= 2000	6.1	47.1	55.5	61.8	67.3	68.5	70.3	71.3	71.4	72.1	72.4	72.4	72.6	72.6	72.8	72.9
>= 1000	6.3	48.4	56.8	63.1	68.7	69.9	71.7	72.7	72.8	73.5	73.8	73.8	74.0	74.0	74.2	74.3
>= 500	6.3	48.7	57.2	63.6	69.2	70.4	72.2	73.2	73.3	73.9	74.3	74.3	74.5	74.5	74.7	74.8
>= 400	6.4	50.2	58.7	65.2	70.9	72.2	74.1	75.2	75.2	75.9	76.3	76.3	76.5	76.5	76.7	76.8
>= 300	6.6	51.1	59.7	66.3	72.0	73.3	75.2	76.3	76.4	77.0	77.4	77.4	77.7	77.7	77.8	77.9
>= 200	6.8	52.7	61.6	68.6	74.5	76.0	77.9	79.0	79.1	79.7	80.1	80.1	80.4	80.4	80.5	80.6
>= 100	7.1	53.7	62.7	69.7	75.6	77.1	79.1	80.1	80.2	80.8	81.3	81.3	81.5	81.5	81.7	81.7
>= 50	7.2	55.4	64.8	71.9	77.9	79.5	81.5	82.5	82.6	83.3	83.7	83.7	83.9	83.9	84.1	84.2
>= 25	7.2	55.5	64.9	72.1	78.1	79.7	81.7	82.7	82.8	83.4	83.8	83.8	84.1	84.1	84.3	84.3
>= 12.5	7.5	57.2	66.8	74.1	80.3	81.9	83.8	84.9	85.0	85.7	86.1	86.1	86.4	86.4	86.5	86.6
>= 6.25	7.7	58.2	68.2	75.7	82.1	83.8	85.9	86.9	87.0	87.7	88.1	88.1	88.4	88.4	88.6	88.6
>= 3.125	7.7	59.0	69.2	76.8	83.4	85.1	87.3	88.4	88.5	89.2	89.6	89.6	89.9	89.9	90.2	90.3
>= 1.5625	7.8	59.7	69.9	77.8	84.5	86.2	88.6	89.7	89.8	90.5	90.9	90.9	91.2	91.2	91.5	91.6
>= 0.78125	7.8	60.1	70.5	78.8	85.6	87.4	90.1	91.3	91.4	92.1	92.5	92.5	92.9	92.9	93.1	93.2
>= 0.390625	7.8	60.6	71.2	79.8	86.7	88.6	91.4	92.8	92.9	93.6	94.0	94.0	94.3	94.4	94.6	94.6
>= 0.1953125	7.8	61.0	71.8	80.7	87.8	89.9	92.8	94.2	94.2	95.0	95.5	95.5	95.9	96.0	96.2	96.3
>= 0.09765625	7.8	61.3	72.2	81.3	88.5	90.7	93.8	95.4	95.5	96.3	96.8	96.8	97.2	97.2	97.4	97.5
>= 0.048828125	7.8	61.3	72.2	81.4	88.7	91.1	94.3	96.0	96.1	96.9	97.4	97.4	97.9	98.0	98.1	98.2
>= 0.0244140625	7.8	61.3	72.2	81.5	89.0	91.3	94.6	96.3	96.4	97.3	97.8	97.8	98.4	98.5	98.7	98.8
>= 0.01220703125	7.8	61.3	72.2	81.5	89.0	91.3	94.6	96.3	96.4	97.5	98.1	98.1	98.6	98.7	99.0	99.1
>= 0.006103515625	7.8	61.3	72.2	81.5	89.0	91.3	94.6	96.3	96.4	97.5	98.1	98.1	98.9	98.9	99.3	99.6
>= 0.0030517578125	7.8	61.3	72.2	81.5	89.0	91.3	94.6	96.3	96.4	97.5	98.1	98.1	99.0	99.1	99.4	100.0

TOTAL NO. OF OBS : 1232



## 2 - CEILING VS VISIBILITY

013750 : NORFOLK, VA  
PERIOD OF RECORD : 1945-1986  
CLASS : ALL WEATHER  
CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : SEP  
HOUR : 1000 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)									
	>=10	>=6	>=5	>=4	>=3	>=2 1/2	>=2	>=1 1/2	>=1 1/4	>=1
UNLIMIT	8.6	44.9	49.8	52.4	54.6	55.1	55.3	55.4	55.4	55.4
>=20000	9.1	48.2	53.3	56.4	58.8	59.2	59.5	59.5	59.5	59.5
>=18000	9.1	48.3	53.4	56.4	59.0	59.4	59.6	59.7	59.7	59.7
>=16000	9.1	48.5	53.6	56.6	59.1	59.5	59.8	59.9	59.9	59.9
>=14000	9.5	48.9	54.1	57.2	59.7	60.1	60.4	60.4	60.4	60.4
>=12000	9.8	50.3	55.6	58.9	61.5	62.0	62.2	62.3	62.3	62.3
>=10000	10.2	53.3	59.3	63.0	65.9	66.5	66.7	66.8	66.8	66.8
>= 9000	10.3	53.3	59.5	63.1	66.2	66.7	67.0	67.0	67.0	67.0
>= 8000	10.8	56.4	63.4	67.2	70.3	70.9	71.1	71.2	71.2	71.2
>= 7000	10.9	57.2	64.3	68.2	71.3	71.9	72.1	72.2	72.2	72.2
>= 6000	11.0	57.8	65.0	68.9	72.0	72.6	72.8	72.9	72.9	72.9
>= 5000	11.3	58.5	65.9	69.8	72.9	73.5	73.7	73.8	73.8	73.8
>= 4500	11.3	58.6	66.0	69.9	73.0	73.6	73.8	73.9	73.9	73.9
>= 4000	11.3	59.5	67.0	71.1	74.2	74.8	75.1	75.3	75.3	75.3
>= 3500	11.3	60.2	67.8	71.9	75.0	75.5	75.9	76.0	76.0	76.0
>= 3000	12.1	62.9	70.6	74.6	77.8	78.5	78.8	79.0	79.0	79.0
>= 2500	12.4	64.4	72.3	76.4	79.9	80.5	80.8	81.0	81.1	81.1
>= 2000	12.9	67.5	75.4	80.0	83.7	84.3	84.7	84.8	84.9	84.9
>= 1800	13.0	68.1	76.0	80.7	84.4	85.1	85.4	85.6	85.6	85.6
>= 1500	13.1	70.2	78.8	83.7	87.4	88.2	88.6	88.7	88.8	88.8
>= 1200	13.4	72.2	81.2	86.6	90.7	91.5	92.0	92.2	92.3	92.3
>= 1000	13.5	73.2	82.5	88.3	92.5	93.5	94.0	94.2	94.3	94.3
>= 900	13.5	73.2	82.5	88.3	92.7	93.6	94.2	94.4	94.5	94.5
>= 800	13.5	73.7	83.0	89.2	93.7	94.9	95.5	95.7	95.8	95.8
>= 700	13.5	74.1	83.5	89.7	94.5	95.8	96.5	96.8	96.9	96.9
>= 600	13.6	74.6	84.0	90.3	95.3	96.8	97.6	98.0	98.2	98.2
>= 500	13.6	74.6	84.3	90.5	95.7	97.3	98.5	98.9	99.1	99.1
>= 400	13.6	74.6	84.3	90.5	95.9	97.6	98.9	99.4	99.5	99.7
>= 300	13.6	74.6	84.3	90.5	96.0	97.7	99.0	99.6	99.7	99.8
>= 200	13.6	74.6	84.3	90.5	96.0	97.8	99.1	99.8	100.0	100.0
>= 100	13.6	74.6	84.3	90.5	96.0	97.8	99.1	99.8	100.0	100.0
>= 0	13.6	74.6	84.3	90.5	96.0	97.8	99.1	99.8	100.0	100.0

TOTAL NO. OF OBS : 1226



## 2 - CEILING VS VISIBILITY

013750 : NORFOLK, VA  
PERIOD OF RECORD : 1945-1986  
CLASS : ALL WEATHER  
CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : SEP  
HOUR : 1300 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)															
	>=10	>=6	>=5	>=4	>=3	>=2 1/2	>=2	>=1 1/2	>=1	>=3/4	>=5/8	>=1/2	>=5/16	>=1/4	>=0	
UNLIMIT	12.8	47.9	51.3	53.7	54.7	54.8	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9	54.9
>=20000	14.0	53.1	56.7	59.6	60.6	60.8	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9
>=18000	14.0	53.1	56.7	59.6	60.6	60.8	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9
>=16000	14.0	53.1	56.8	59.6	60.7	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9	60.9
>=14000	14.2	53.8	57.4	60.3	61.4	61.5	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6
>=12000	15.1	56.1	59.8	62.7	63.9	64.0	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1
>=10000	15.7	59.2	63.0	66.0	67.2	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5	67.5
>=9000	15.9	59.4	63.2	66.2	67.5	67.7	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8	67.8
>=8000	16.3	62.2	66.4	69.6	70.9	71.1	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3
>=7000	16.3	62.8	67.1	70.3	71.6	71.8	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0
>=6000	16.4	63.0	67.3	70.5	71.8	72.0	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2
>=5000	16.4	63.6	68.3	71.4	72.7	73.0	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1
>=4500	16.6	63.9	68.5	71.7	73.1	73.3	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5
>=4000	17.1	65.0	69.8	73.0	74.5	74.8	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9	74.9
>=3500	17.4	65.8	70.7	74.0	75.6	75.8	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0
>=3000	17.8	69.6	74.5	78.0	79.9	80.1	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.3
>=2500	18.6	72.1	77.1	80.6	82.6	82.8	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1	83.1
>=2000	19.1	74.9	80.1	83.6	85.8	86.1	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6
>=1800	19.1	75.6	81.1	84.7	86.9	87.1	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6
>=1500	19.7	78.0	84.0	87.9	90.2	90.6	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3
>=1200	19.9	78.8	85.1	89.4	92.0	92.4	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2
>=1000	19.9	80.1	86.6	91.2	93.8	94.3	95.1	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2
>=900	19.9	80.2	86.8	91.6	94.5	95.0	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9
>=800	19.9	80.9	87.6	92.8	95.9	96.4	97.3	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5
>=700	19.9	81.0	87.8	93.0	96.1	96.7	97.8	98.0	98.1	98.2	98.2	98.2	98.2	98.2	98.2	98.2
>=600	19.9	81.0	88.0	93.2	96.5	97.2	98.3	98.5	98.6	98.7	98.7	98.7	98.7	98.7	98.7	98.7
>=500	19.9	81.0	88.4	93.7	97.1	97.7	98.9	99.1	99.3	99.4	99.4	99.4	99.4	99.4	99.4	99.4
>=400	19.9	81.1	88.4	93.8	97.2	97.8	99.0	99.3	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8
>=300	19.9	81.1	88.4	93.8	97.2	97.8	99.0	99.3	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8
>=200	19.9	81.1	88.4	93.8	97.2	97.8	99.0	99.3	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8
>=100	19.9	81.1	88.4	93.8	97.2	97.8	99.0	99.3	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8
>=0	19.9	81.1	88.4	93.8	97.2	97.8	99.0	99.3	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8

TOTAL NO. OF OBS : 1229



## 2 - CEILING VS VISIBILITY

013750 : NORFOLK, VA  
PERIOD OF RECORD : 1945-1986  
CLASS : ALL WEATHER  
CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : SEP  
HOUR : 1600 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)															
	>=10	>=6	>=5	>=4	>=3	>=2 1/2	>=2	>=1 1/2	>=1 1/4	>=1	>=3/4	>=5/8	>=1/2	>=5/16	>=1/4	>=0
UNLIMIT	14.6	50.8	54.0	55.9	56.4	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5
>=20000	16.3	55.9	59.4	61.5	62.1	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3
>=18000	16.4	56.5	60.0	62.1	62.7	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9
>=16000	16.5	56.5	60.1	62.2	62.8	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9	62.9
>=14000	16.9	57.4	61.1	63.2	63.8	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9
>=12000	17.4	59.1	62.8	65.0	65.6	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7
>=10000	17.9	62.8	66.8	69.4	70.0	70.2	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3
>=9000	18.0	62.9	66.9	69.4	70.1	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3
>=8000	18.2	65.4	69.9	72.6	73.2	73.4	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5	73.5
>=7000	18.4	65.9	70.5	73.2	73.9	74.0	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2
>=6000	18.5	66.3	70.9	73.7	74.4	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7
>=5000	18.7	67.1	71.7	74.6	75.3	75.5	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7
>=4500	18.8	67.5	72.1	74.9	75.7	75.8	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0
>=4000	19.1	68.7	73.5	76.6	77.3	77.6	77.7	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8
>=3500	19.6	70.1	75.0	78.1	78.9	79.1	79.3	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4
>=3000	20.1	74.0	79.1	82.6	83.6	83.8	84.0	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1
>=2500	20.6	75.7	80.9	84.4	85.4	85.7	85.9	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1
>=2000	20.7	77.7	83.0	86.9	87.8	88.2	88.4	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6
>=1800	20.8	78.3	83.6	87.6	88.6	88.9	89.2	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3
>=1500	21.0	80.1	85.7	90.0	91.1	91.6	92.0	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2
>=1200	21.0	80.5	86.4	91.0	92.4	93.0	93.5	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7
>=1000	21.0	81.2	87.2	92.2	93.7	94.2	95.0	95.2	95.2	95.2	95.3	95.3	95.3	95.3	95.3	95.3
>=900	21.0	81.3	87.3	92.5	94.2	94.7	95.6	95.8	95.8	95.8	95.9	95.9	95.9	95.9	95.9	95.9
>=800	21.0	81.6	87.8	93.3	95.1	95.6	96.6	96.9	96.9	96.9	97.0	97.0	97.0	97.0	97.0	97.0
>=700	21.0	81.7	88.0	93.6	95.4	96.1	97.1	97.4	97.4	97.4	97.5	97.5	97.5	97.5	97.5	97.5
>=600	21.0	81.7	88.0	93.8	95.7	96.5	97.6	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
>=500	21.0	81.8	88.2	94.1	96.1	97.0	98.5	98.9	98.9	99.0	99.2	99.2	99.2	99.2	99.2	99.2
>=400	21.0	81.8	88.3	94.3	96.4	97.3	99.0	99.4	99.4	99.8	100.0	100.0	100.0	100.0	100.0	100.0
>=300	21.0	81.8	88.3	94.3	96.4	97.3	99.0	99.4	99.4	99.8	100.0	100.0	100.0	100.0	100.0	100.0
>=200	21.0	81.8	88.3	94.3	96.4	97.3	99.0	99.4	99.4	99.8	100.0	100.0	100.0	100.0	100.0	100.0
>=100	21.0	81.8	88.3	94.3	96.4	97.3	99.0	99.4	99.4	99.8	100.0	100.0	100.0	100.0	100.0	100.0
>=0	0	81.8	88.3	94.3	96.4	97.3	99.0	99.4	99.4	99.8	100.0	100.0	100.0	100.0	100.0	100.0

TOTAL NO. OF OBS : 1217



## 2 - CEILING VS VISIBILITY

013750 : NORFOLK, VA  
PERIOD OF RECORD : 1945-1986  
CLASS : ALL WEATHER  
CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : SEP  
HOUR : 1900 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)									
	>=10	>=6	>=5	>=4	>=3	>=2 1/2	>=2	>=1 1/2	>=1 1/4	>=1
UNLIMIT	10.5	52.3	55.3	57.2	58.2	58.4	58.5	58.5	58.5	58.5
>=20000	11.2	56.0	59.2	61.5	62.6	62.7	62.9	62.9	62.9	62.9
>=18000	11.2	56.0	59.2	61.5	62.6	62.7	62.9	62.9	62.9	62.9
>=16000	11.2	56.0	59.2	61.5	62.6	62.7	62.9	62.9	62.9	62.9
>=14000	11.3	56.7	59.9	62.2	63.2	63.4	63.5	63.5	63.5	63.5
>=12000	11.8	58.5	61.7	64.0	65.1	65.3	65.4	65.4	65.4	65.4
>=10000	12.4	63.2	66.8	69.5	70.7	70.9	71.2	71.3	71.3	71.3
>= 9000	12.4	63.3	66.9	69.5	70.8	71.0	71.3	71.3	71.3	71.3
>= 8000	12.6	67.7	71.8	74.5	75.9	76.2	76.4	76.5	76.5	76.5
>= 7000	12.7	68.4	72.7	75.4	76.8	77.0	77.3	77.3	77.3	77.3
>= 6000	12.7	68.8	73.2	75.9	77.3	77.5	77.8	77.8	77.8	77.8
>= 5000	13.0	70.0	74.5	77.2	78.6	78.8	79.1	79.1	79.1	79.1
>= 4500	13.1	70.2	74.6	77.4	78.9	79.1	79.4	79.5	79.5	79.5
>= 4000	13.1	71.5	76.1	79.0	80.5	80.8	81.1	81.2	81.2	81.2
>= 3500	13.1	72.2	76.8	79.7	81.3	81.5	81.9	81.9	81.9	81.9
>= 3000	13.4	74.0	78.9	82.2	83.8	84.1	84.4	84.6	84.6	84.6
>= 2500	13.5	75.2	80.5	83.9	85.7	86.0	86.3	86.5	86.5	86.5
>= 2000	13.8	76.7	82.4	85.9	87.8	88.2	88.6	88.8	88.8	88.8
>= 1800	13.8	76.8	82.5	86.0	87.8	88.3	88.8	89.0	89.0	89.0
>= 1500	14.0	78.3	84.2	87.8	90.1	90.6	91.1	91.3	91.3	91.3
>= 1200	14.1	79.3	85.2	89.1	91.5	92.0	92.6	92.9	92.9	92.9
>= 1000	14.1	79.8	85.9	89.9	92.4	93.0	93.7	93.9	93.9	93.9
>= 900	14.1	80.0	86.3	90.4	92.9	93.6	94.3	94.5	94.5	94.5
>= 800	14.2	80.6	87.4	91.5	94.3	95.1	96.1	96.4	96.4	96.4
>= 700	14.2	80.6	87.4	91.7	94.6	95.6	96.6	97.0	97.0	97.0
>= 600	14.2	80.8	87.8	92.1	95.2	96.2	97.2	97.7	97.7	97.8
>= 500	14.2	81.0	88.0	92.7	96.1	97.1	98.3	98.8	98.9	98.9
>= 400	14.2	81.1	88.3	93.1	96.6	97.7	98.9	99.4	99.6	99.7
>= 300	14.2	81.1	88.3	93.1	96.6	97.7	98.9	99.4	99.6	99.7
>= 200	14.2	81.1	88.3	93.1	96.6	97.7	98.9	99.4	99.6	99.7
>= 100	14.2	81.1	88.3	93.1	96.6	97.7	98.9	99.4	99.6	99.7
>= 0	14.2	81.1	88.3	93.1	96.6	97.7	98.9	99.5	99.8	100.0

TOTAL NO. OF OBS : 1218



# 2 - CEILING VS VISIBILITY

013750 : NORFOLK, VA  
 PERIOD OF RECORD : 1945-1986  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
 MONTH : SEP  
 HOUR : 2200 LST

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)									
	>=10	>=6	>=5	>=4	>=3	>=2 1/2	>=2	>=1 1/2	>=1 1/4	>=1
UNLIMIT	9.2	59.1	62.9	65.6	66.3	66.6	66.7	66.7	66.7	66.7
>=20000	9.5	61.5	65.6	68.5	69.3	69.5	69.7	69.7	69.7	69.7
>=18000	9.5	61.5	65.6	68.5	69.3	69.5	69.7	69.7	69.7	69.7
>=16000	9.5	61.6	65.7	68.5	69.3	69.6	69.7	69.7	69.7	69.7
>=14000	9.6	61.8	65.9	68.8	69.6	69.8	70.0	70.0	70.0	70.0
>=12000	9.8	62.6	66.8	69.7	70.5	70.7	70.9	70.9	70.9	70.9
>=10000	10.1	65.7	70.2	73.3	74.1	74.4	74.5	74.5	74.5	74.5
>= 9000	10.1	65.9	70.3	73.5	74.3	74.5	74.7	74.7	74.7	74.7
>= 8000	10.6	69.7	74.4	77.9	78.8	79.0	79.2	79.2	79.2	79.2
>= 7000	10.6	70.2	74.9	78.4	79.3	79.6	79.7	79.7	79.7	79.7
>= 6000	10.6	70.6	75.3	78.8	79.7	80.0	80.2	80.2	80.2	80.2
>= 5000	10.7	71.8	76.6	80.0	80.9	81.3	81.4	81.4	81.4	81.4
>= 4500	10.7	72.2	77.0	80.5	81.4	81.8	81.9	81.9	81.9	81.9
>= 4000	11.0	73.5	78.3	81.9	82.8	83.1	83.3	83.3	83.3	83.3
>= 3500	11.3	74.5	79.3	82.9	83.8	84.1	84.3	84.3	84.3	84.3
>= 3000	11.7	77.0	81.9	85.7	86.7	87.1	87.3	87.3	87.3	87.3
>= 2500	11.7	78.0	83.0	86.8	87.9	88.3	88.5	88.5	88.5	88.5
>= 2000	11.8	79.4	84.8	88.7	89.9	90.3	90.4	90.4	90.4	90.4
>= 1800	11.8	79.6	84.9	88.9	90.0	90.4	90.6	90.6	90.6	90.6
>= 1500	11.8	80.2	85.7	89.7	90.8	91.3	91.5	91.5	91.5	91.5
>= 1200	11.8	81.3	87.1	91.2	92.4	92.9	93.0	93.0	93.0	93.0
>= 1000	11.8	81.7	87.8	92.1	93.3	93.8	94.0	94.1	94.1	94.1
>= 900	11.8	82.1	88.6	92.9	94.2	94.8	95.1	95.1	95.1	95.1
>= 800	11.9	82.6	89.3	94.2	95.6	96.2	96.6	96.8	96.8	96.8
>= 700	11.9	82.8	89.8	95.0	96.4	97.0	97.5	97.8	97.8	97.8
>= 600	11.9	83.0	90.2	95.5	97.0	97.6	98.2	98.5	98.5	98.5
>= 500	11.9	83.2	90.4	95.8	97.3	98.1	98.7	99.2	99.2	99.2
>= 400	11.9	83.3	90.6	96.2	97.8	98.5	99.2	99.7	99.7	99.7
>= 300	11.9	83.3	90.6	96.2	97.8	98.5	99.2	99.7	99.7	99.7
>= 200	11.9	83.3	90.6	96.2	97.8	98.5	99.2	99.8	99.8	99.8
>= 100	11.9	83.3	90.6	96.2	97.8	98.5	99.2	99.8	99.8	99.8
>= 0	11.9	83.3	90.6	96.2	97.8	98.5	99.2	99.8	99.8	100.0

TOTAL NO. OF OBS : 1233



## 2 - CEILING VS VISIBILITY

013750 : NORFOLK, VA  
PERIOD OF RECORD : 1945-1986  
CLASS : ALL WEATHER  
CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : SEP  
HOUR : ALL

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)									
	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=1	>=3/4	>=5/8
UNLIMIT	9.4	49.4	53.7	56.5	58.0	58.4	58.7	58.9	59.0	59.1
>=20000	10.1	52.8	57.3	60.4	62.1	62.4	62.8	63.0	63.1	63.2
>=18000	10.1	52.9	57.4	60.5	62.2	62.5	62.9	63.1	63.2	63.3
>=16000	10.1	53.0	57.5	60.6	62.2	62.6	63.0	63.2	63.3	63.4
>=14000	10.4	53.5	58.1	61.2	62.8	63.2	63.6	63.8	63.9	64.0
>=12000	10.8	55.0	59.6	62.7	64.5	64.9	65.3	65.5	65.6	65.7
>=10000	11.2	58.5	63.6	67.0	68.9	69.3	69.8	70.0	70.1	70.2
>=9000	11.2	58.6	63.7	67.1	69.0	69.5	69.9	70.1	70.2	70.3
>=8000	11.5	62.0	67.5	71.1	73.2	73.6	74.1	74.3	74.4	74.5
>=7000	11.7	62.6	68.2	71.9	73.9	74.4	74.9	75.1	75.2	75.3
>=6000	11.7	62.9	68.6	72.3	74.3	74.8	75.3	75.5	75.6	75.7
>=5000	11.9	63.9	69.7	73.4	75.4	75.9	76.4	76.6	76.7	76.8
>=4500	11.9	64.3	70.0	73.8	75.9	76.4	76.8	77.0	77.1	77.2
>=4000	12.2	65.6	71.5	75.3	77.5	78.0	78.5	78.7	78.9	79.0
>=3500	12.3	66.6	72.5	76.4	78.6	79.1	79.6	79.8	80.0	80.1
>=3000	12.7	69.2	75.3	79.4	81.7	82.3	82.8	83.0	83.2	83.3
>=2500	13.0	70.6	76.8	81.0	83.4	83.9	84.5	84.7	84.9	85.0
>=2000	13.2	72.5	79.0	83.3	85.8	86.4	87.0	87.2	87.4	87.5
>=1800	13.2	72.8	79.4	83.8	86.2	86.8	87.4	87.7	87.9	88.0
>=1500	13.4	74.4	81.2	85.8	88.4	89.0	89.7	90.0	90.1	90.2
>=1200	13.5	75.4	82.5	87.3	90.1	90.9	91.6	91.9	92.0	92.1
>=1000	13.5	76.2	83.5	88.6	91.5	92.2	93.1	93.4	93.6	93.7
>=900	13.6	76.5	83.9	89.1	92.1	93.0	93.9	94.2	94.3	94.4
>=800	13.6	77.1	84.8	90.3	93.4	94.3	95.4	95.7	95.9	96.0
>=700	13.6	77.3	85.1	90.8	94.0	95.0	96.1	96.5	96.7	96.8
>=600	13.6	77.5	85.4	91.2	94.6	95.7	96.9	97.3	97.5	97.6
>=500	13.6	77.6	85.7	91.7	95.2	96.3	97.7	98.2	98.5	98.6
>=400	13.6	77.7	85.8	91.9	95.5	96.7	98.2	98.7	99.0	99.2
>=300	13.6	77.7	85.9	91.9	95.6	96.8	98.3	98.9	99.2	99.4
>=200	13.6	77.7	85.9	91.9	95.6	96.8	98.3	98.9	99.3	99.5
>=100	13.6	77.7	85.9	91.9	95.6	96.8	98.3	98.9	99.3	99.5
>=0	13.6	77.7	85.9	91.9	95.6	96.8	98.3	99.0	99.3	99.6

TOTAL NO. OF OBS : 9845



# 1 - SURFACE WINDS

013750 : NORFOLK, VA  
 PERIOD OF RECORD : 1945-1986  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
 MONTH : OCT  
 HOUR : 0100 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

16 PT.	1	-	3	4	-	6	7-10	11-16	17-21	SPEED (KNOTS)					TOTAL					MEAN
DIP.																				

TOTAL NO. OF OBS : 1301

NOTES : \* = PERCENT < .05



# 1 - SURFACE WINDS

013750 : NORFOLK, VA  
 PERIOD OF RECORD : 1945-1986  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
 MONTH : OCT  
 HOUR : 0400 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

16 PT. DIR.	SPEED (KNOTS)											TOTAL %	MEAN	
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>=56		WIND	SPEED
N	.2	.9	2.3	3.3	.7	.4	.1	.0	.0	.0	.0	7.8	12.1	
NNE	.5	1.1	2.4	3.3	1.5	.8	.1	.0	.0	.0	.0	9.5	12.6	
NE	.6	1.6	2.1	2.9	1.2	.2	.0	.0	.0	.0	.0	8.7	10.9	
ENE	.5	1.1	2.0	1.4	.3	.2	.0	.0	.0	.0	.0	5.4	9.4	
E	.9	1.8	1.2	.3	.2	.0	.0	.0	.0	.0	.0	4.3	6.4	
ESE	.5	.5	.4	.1	.0	.0	.0	.0	.0	.0	.0	1.4	5.1	
SE	.5	.5	.3	.1	.0	.0	.0	.0	.0	.0	.0	1.5	5.4	
SSE	1.6	1.2	.6	.0	.0	.0	.0	.0	.0	.0	.0	3.4	4.3	
S	1.5	1.6	1.4	.3	.1	.0	.0	.0	.0	.0	.0	4.9	5.8	
SSW	1.0	2.7	3.5	1.5	.1	.0	.0	.0	.0	.0	.0	8.8	7.4	
SW	.6	3.4	3.5	.8	.0	.0	.0	.0	.0	.0	.0	8.3	7.0	
WSW	.9	2.2	1.1	.3	.0	.0	.0	.0	.0	.0	.0	4.5	5.7	
W	.8	.7	.7	.8	.0	.0	.0	.0	.0	.0	.0	3.0	7.1	
WNW	.2	1.4	.8	.4	.2	.0	.0	.0	.0	.0	.0	3.0	7.6	
NW	.0	1.4	2.1	1.5	.2	.0	.0	.0	.0	.0	.0	5.1	9.2	
NNW	.2	1.5	2.6	2.7	.6	.2	.0	.0	.0	.0	.0	7.8	10.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CLM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12.6	.0	
ALL	10.5	23.4	26.9	19.8	4.9	1.7	.2	.0	.0	.0	.0	100.0	7.7	

TOTAL NO. OF OBS : 1301

NOTES :  
 \* = PERCENT < .05



# 1 - SURFACE WINDS

013750 : NORFOLK, VA LAT. : 36 57N LONG. : 76 17W ELEV.: 15 FT  
 PERIOD OF RECORD : 1945-1986 MONTH : OCT  
 CLASS : ALL WEATHER HOUR : 0700 LST  
 CONDITION : NONE SPECIFIED

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

16 PT. 1																SPEED (KNOTS)																TOTAL		MEAN					
DIR.																																>=56		%		WIND		SPEED	

TOTAL NO. OF OBS : 1301

NOTES :  
 \* = PERCENT < .05



# 1 - SURFACE WINDS

013750 : NORFOLK, VA  
 PERIOD OF RECORD : 1945-1986  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT

MONTH : OCT  
 HOUR : 1000 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

16 PT. DIR.	1	2	3	4	5	6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>=56	TOTAL	MEAN
																%	WIND SPEED
N	.9	2.7	3.5	4.6	.6	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	12.5	9.7
NNE	.6	2.0	5.3	5.5	2.3	.6	.2	.0	.0	.0	.0	.0	.0	.0	.0	16.5	11.8
NE	.1	.6	3.8	2.7	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.7	11.0
ENE	.5	1.2	2.3	2.2	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.6	9.9
E	.3	.7	3.4	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.2	8.6
ESE	.3	.6	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	7.9
SE	.1	.3	.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	8.7
SSE	.3	.8	1.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.5	7.3
S	.3	1.3	2.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.3	7.6
SSW	.2	1.2	3.5	1.8	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.9	9.3
SW	.2	1.6	3.8	2.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.8	9.1
WSW	.3	2.1	2.2	.7	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.4	7.6
W	.8	1.8	2.6	1.3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.5	8.0
WNW	.4	.8	.6	.5	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.4	8.4
NW	.2	.5	.8	1.7	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.4	10.8
NNW	.5	1.1	1.8	2.9	.6	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.1	10.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.5	.0
ALL	6.0	19.2	37.4	28.4	5.1	1.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	100.0	9.5

TOTAL NO. OF OBS : 1301

NOTES :  
 \* = PERCENT < .05



# 1 - SURFACE WINDS

013750 : NORFOLK, VA  
 PERIOD OF RECORD : 1945-1986  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
 MONTH : OCT  
 HOUR : 1300 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

16 PT. DIR.	SPEED (KNOTS)																TOTAL %	MEAN WIND SPEED
	1 - 3	4 - 6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>=56							
N	.9	2.8	3.4	4.0	1.3	.1	.0	.0	.0	.0	.0	12.5	10.3					
NNE	.8	3.8	5.8	4.5	1.5	.2	.1	.0	.0	.0	.0	16.7	9.8					
NE	.2	2.4	3.8	3.1	.9	.1	.0	.0	.0	.0	.0	10.5	10.3					
ENE	.6	1.7	4.0	2.8	.5	.0	.0	.0	.0	.0	.0	9.6	9.5					
E	.1	1.7	2.5	1.0	.0	.0	.0	.0	.0	.0	.0	5.2	8.1					
ESE	.2	.4	.5	.2	.0	.0	.0	.0	.0	.0	.0	1.2	7.1					
SE	.0	.2	1.0	.4	.2	.0	.0	.1	.0	.0	.0	1.8	11.5					
SSE	.1	.2	.6	.2	.0	.0	.0	.0	.0	.0	.0	1.2	8.5					
S	.2	1.1	1.2	.8	.2	.1	.0	.0	.0	.0	.0	3.6	9.1					
SSW	.2	.9	3.5	2.3	.1	.2	.0	.0	.0	.0	.0	7.2	9.8					
SW	.1	1.1	2.8	2.5	.3	.0	.0	.0	.0	.0	.0	6.8	10.0					
WSW	.5	1.2	2.2	1.8	.1	.0	.0	.0	.0	.0	.0	5.6	9.1					
W	.2	1.5	2.8	1.6	.2	.0	.0	.0	.0	.0	.0	6.2	9.0					
WNW	.2	.6	.8	1.4	.2	.0	.0	.0	.0	.0	.0	3.2	10.1					
NW	.1	.8	1.4	1.5	.0	.1	.0	.0	.0	.0	.0	3.8	9.9					
NNW	.4	.5	1.6	1.4	.3	.0	.1	.0	.0	.0	.0	4.2	10.4					
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0					
CLM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	.0					
ALL	4.7	20.7	37.8	29.5	5.7	.6	.2	.1	.0	.0	.0	100.0	9.6					

TOTAL NO. OF OBS : 1300

NOTES :  
 \* = PERCENT < .05



1 - SURFACE WINDS

013750 : NORFOLK, VA  
PERIOD OF RECORD : 1945-1986  
CLASS : ALL WEATHER  
CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : OCT  
HOUR : 1600 LST

PERCENTAGE FREQUENCY OF WIND  
DIRECTION VS SPEED  
(FROM HOURLY OBSERVATIONS)

16 PT. DIR.	1	2	3	4	5	6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>=56	TOTAL %	MEAN WIND SPEED
N	.6	1.2	2.7	2.9	1.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.5	10.7
NNE	.8	2.7	3.5	3.5	.8	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	11.6	9.8
NE	.5	2.5	3.8	2.7	.9	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	10.8	10.1
ENE	1.0	4.5	3.8	2.8	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	12.4	8.0
E	1.8	4.0	4.1	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11.0	6.6
ESE	.2	.9	1.8	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.5	7.4
SE	.0	.5	1.2	.6	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.5	9.3
SSE	.2	.5	.8	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.4	9.3
S	.2	1.1	1.7	.6	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.7	8.4
SSW	.2	.8	3.5	2.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.8	9.9
SW	.4	1.1	2.8	1.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.5	8.9
WSW	.2	1.2	1.5	1.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.1	8.8
W	.3	1.2	2.3	1.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.0	8.4
WNW	.3	.5	1.4	1.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.5	9.9
NW	.2	.5	1.2	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.2	10.1
NNW	.0	.6	1.2	.9	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.2	10.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	.0
ALL	6.9	23.9	37.4	25.3	3.9	1.0	.2	.0	.0	.0	.0	.0	.1	.0	.0	100.0	8.9

TOTAL NO. OF OBS : 1301

NOTES :  
\* = PERCENT < .05



# 1 - SURFACE WINDS

013750 : NORFOLK, VA  
 PERIOD OF RECORD : 1945-1986  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
 MONTH : OCT  
 HOUR : 1900 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

16 PT. DIR.	SPEED (KNOTS)																TOTAL %	MEAN WIND SPEED
	1 - 3	4 - 6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>=56							
N	.2	1.0	2.2	2.1	.8	.2	.0	.0	.0	.0	.0	6.5	11.0					
NNE	.3	.8	2.2	2.8	.9	.3	.1	.1	.0	.0	.0	7.5	12.1					
NE	.6	1.5	2.2	3.5	.8	.3	.1	.0	.0	.0	.0	9.0	11.1					
ENE	1.0	2.8	1.9	2.0	.3	.2	.0	.0	.0	.0	.0	8.1	8.5					
E	2.3	2.2	2.0	.4	.2	.0	.0	.0	.0	.0	.0	7.1	5.7					
ESE	1.3	1.4	1.2	.2	.0	.0	.0	.0	.0	.0	.0	4.0	5.3					
SE	3.1	2.4	1.1	.2	.0	.0	.0	.0	.0	.0	.0	6.7	4.4					
SSE	1.6	4.2	2.9	.5	.1	.0	.0	.0	.0	.0	.0	9.4	6.2					
S	1.5	3.0	1.8	1.0	.1	.0	.0	.0	.0	.0	.0	7.4	6.5					
SSW	.8	1.6	3.2	1.0	.1	.0	.0	.0	.0	.0	.0	6.7	7.6					
SW	.5	1.4	1.2	.4	.1	.0	.0	.0	.0	.0	.0	3.5	6.9					
WSW	.2	1.3	.7	.0	.1	.0	.0	.0	.0	.0	.0	2.4	6.7					
W	.0	.8	.9	.0	.2	.0	.0	.0	.0	.0	.0	2.0	8.1					
WNW	.4	.2	.7	.8	.0	.2	.0	.0	.0	.0	.0	2.2	9.8					
NW	.2	.5	1.9	.7	.1	.1	.0	.0	.0	.0	.0	3.4	9.4					
NNW	.2	.8	1.8	1.9	.4	.2	.0	.0	.0	.0	.0	5.3	11.0					
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0					
CLM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.8	.0					
ALL	14.1	25.8	28.0	17.5	4.1	1.5	.2	.1	.0	.0	.0	100.0	7.5					

TOTAL NO. OF OBS : 1301

NOTES : \* = PERCENT < .05



# 1 - SURFACE WINDS

013750 : NORFOLK, VA  
 PERIOD OF RECORD : 1945-1986  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
 MONTH : OCT  
 HOUR : 2200 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

16 DIR.	PT.	1	- 3	4	- 6	7-10	11-16	17-21	SPEED (KNOTS)							TOTAL %	MEAN	
									22-27	28-33	34-40	41-47	48-55	>=56	WIND		SPEED	
N		.0		1.0		1.6	3.1	.7	.5	.0		.0		6.8	12.3			
NNE		.5		.8		1.4	3.1	1.1	.3	.2		.0		7.3	12.5			
NE		.5		.8		2.2	3.2	.7	.2	.1		.0		7.6	11.4			
ENE		.5		1.8		2.3	1.8	.2	.2	.0		.0		6.8	9.1			
E		1.3		2.5		1.8	.5	.0	.0	.0		.0		6.1	6.1			
ESE		1.3		.8		.4	.1	.0	.0	.0		.0		2.6	4.3			
SE		1.5		1.2		.6	.1	.0	.0	.0		.0		3.4	4.5			
SSE		2.8		2.3		1.4	.4	.0	.0	.0		.0		6.9	5.0			
S		2.3		2.9		3.4	1.0	.0	.0	.0		.0		9.6	6.4			
SSW		.8		2.5		4.1	2.7	.1	.0	.0		.0		10.1	8.5			
SW		.5		2.2		1.9	.5	.0	.0	.0		.0		5.1	6.7			
WSW		.4		1.1		.7	.4	.2	.0	.0		.0		2.7	7.4			
W		.2		.7		.5	.5	.0	.0	.0		.0		1.8	8.0			
WNW		.2		.2		1.1	.3	.0	.1	.0		.0		1.8	9.3			
NW		.2		.8		1.1	1.2	.2	.0	.0		.0		3.5	9.6			
NNW		.2		.9		1.8	2.3	.2	.1	.0		.0		5.5	10.4			
VAR		.0		.0		.0	.0	.0	.0	.0		.0		.0	.0			
CCLM		.0		.0		.0	.0	.0	.0	.0		.0		.0	.0			
ALL		13.2		22.4		26.2	21.1	3.4	1.2	.2		.0		100.0	7.5			

TOTAL NO. OF OBS : 1301

NOTES : \* = PERCENT < .05



# 1 - SURFACE WINDS

013750 : NORFOLK, VA  
 PERIOD OF RECORD : 1945-1986  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
 MONTH : OCT  
 HOUR : ALL

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

16 PT.	1	2	3	4	5	6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>56	TOTAL	MEAN
DIR.	1	2	3	4	5	6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>56	%	WIND SPEED
N	.4	1.5	2.6	3.2	.8	.2	.0*	.0*	.0	.0*	.0	.0	.0	.0	.0	8.7	10.9
NNE	.5	1.6	3.0	3.7	1.4	.5	.1	.0*	.0	.0*	.0	.0	.0	.0	.0	10.8	11.7
NE	.4	1.5	2.9	3.2	.9	.2	.0*	.0	.0	.0*	.0	.0	.0	.0	.0	9.1	10.8
ENE	.6	2.0	2.5	1.9	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.5	9.0
E	1.0	2.0	2.2	.6	.0*	.0*	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.0	6.8
ESE	.6	.8	.7	.2	.0	.0	.0	.0	.0	.0	.0	.0*	.0	.0	.0	2.3	5.9
SE	.8	.8	.7	.2	.0*	.0	.0	.0	.0*	.0	.0	.0*	.0	.0	.0	2.6	6.1
SSE	1.2	1.5	1.1	.4	.0*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.1	5.9
S	1.1	1.8	2.0	.7	.1	.0*	.0	.0	.0	.0*	.0	.0	.0	.0	.0	5.7	6.9
SSW	.6	1.9	3.6	1.8	.1	.0*	.0	.0	.0	.0*	.0	.0	.0*	.0	.0	8.0	8.4
SW	.6	2.0	2.7	1.1	.1	.0*	.0	.0	.0	.0*	.0	.0	.0	.0	.0	6.4	7.8
WSW	.4	1.5	1.4	.6	.1	.0*	.0	.0	.0	.0*	.0	.0	.0	.0	.0	4.0	7.3
W	.5	1.3	1.6	.8	.1	.0*	.0	.0	.0	.0*	.0	.0	.0	.0	.0	4.2	7.8
WNW	.3	.6	1.0	.7	.1	.0*	.0	.0	.0	.0*	.0	.0	.0	.0	.0	2.7	8.9
NW	.2	.8	1.5	1.5	.1	.0*	.0	.0	.0	.0*	.0	.0	.0	.0	.0	4.2	9.6
NNW	.3	1.0	1.9	2.2	.4	.1	.0*	.0	.0	.0*	.0	.0	.0	.0	.0	5.9	10.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.8	.0
ALL	9.7	22.5	31.3	22.7	4.6	1.2	.2	.0*	.0*	.0*	.0	.0*	.0*	.0	.0	100.0	8.3

TOTAL NO. OF OBS : 10407

NOTES : \* = PERCENT < .05



## 2 - CEILING VS VISIBILITY

013750 : NORFOLK, VA  
PERIOD OF RECORD : 1945-1986  
CLASS : ALL WEATHER  
CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : OCT  
HOUR : 0100 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)									
	>=10	>=6	>=5	>=4	>=3	>=2 1/2	>=2	>=1 1/2	>=1 1/4	>=1
UNLIMIT	8.2	52.3	55.5	57.3	59.4	59.8	60.5	60.8	61.0	61.1
>=20000	8.3	54.2	57.4	59.3	61.6	62.1	62.9	63.2	63.3	63.5
>=18000	8.3	54.2	57.4	59.3	61.6	62.1	62.9	63.2	63.3	63.5
>=16000	8.4	54.3	57.5	59.4	61.7	62.1	62.9	63.2	63.4	63.6
>=14000	8.6	54.6	57.8	59.7	62.0	62.5	63.3	63.6	63.8	63.9
>=12000	8.7	55.6	58.9	60.7	63.0	63.6	64.3	64.7	64.8	65.0
>=10000	8.9	58.2	61.6	63.6	65.9	66.5	67.2	67.6	67.9	68.1
>=9000	8.9	58.5	61.8	63.9	66.1	66.7	67.5	67.8	67.9	68.1
>=8000	9.1	62.9	66.5	68.9	71.2	71.7	72.5	72.8	73.0	73.1
>=7000	9.2	63.9	67.6	69.9	72.2	72.7	73.5	73.8	74.0	74.1
>=6000	9.2	64.3	68.0	70.4	72.6	73.2	74.0	74.3	74.5	74.6
>=5000	9.2	65.6	69.3	71.7	74.0	74.5	75.3	75.6	75.8	75.9
>=4500	9.2	66.5	70.2	72.6	74.9	75.5	76.3	76.6	76.7	76.9
>=4000	9.3	68.0	72.3	74.7	77.0	77.5	78.4	78.7	78.8	79.0
>=3500	9.4	68.9	73.2	75.6	77.9	78.4	79.4	79.7	79.9	80.0
>=3000	9.5	70.8	75.4	77.8	80.1	80.6	81.6	81.9	82.1	82.2
>=2500	9.7	71.7	76.3	79.1	81.3	81.9	82.8	83.2	83.3	83.5
>=2000	9.8	73.0	78.0	80.8	83.1	83.6	84.6	84.9	85.0	85.2
>=1800	9.8	73.4	78.5	81.4	83.7	84.2	85.2	85.5	85.7	85.8
>=1500	9.8	74.1	79.7	82.7	85.0	85.5	86.4	86.8	86.9	87.1
>=1200	10.0	75.1	80.8	83.9	86.4	86.9	87.9	88.2	88.4	88.6
>=1000	10.0	76.4	82.4	85.7	88.2	88.8	89.8	90.1	90.3	90.4
>=900	10.0	77.2	83.5	86.9	89.6	90.1	91.2	91.5	91.7	91.8
>=800	10.1	77.9	84.6	88.1	91.0	91.5	92.7	93.0	93.2	93.3
>=700	10.1	78.4	85.0	88.9	91.8	92.3	93.7	94.0	94.1	94.3
>=600	10.1	78.7	85.5	89.3	92.5	93.1	94.5	94.9	95.1	95.2
>=500	10.1	79.1	86.0	90.0	93.3	94.0	95.5	95.9	96.2	96.3
>=400	10.1	79.1	86.1	90.3	93.9	94.6	96.0	96.6	96.9	97.1
>=300	10.1	79.2	86.1	90.4	94.1	94.9	96.3	97.0	97.1	97.6
>=200	10.1	79.2	86.1	90.5	94.3	95.1	96.6	97.3	97.4	97.8
>=100	10.1	79.2	86.1	90.5	94.3	95.1	96.6	97.3	97.4	98.4
>=0	10.1	79.2	86.1	90.5	94.3	95.1	96.6	97.3	97.4	98.4

TOTAL NO. OF OBS : 1276



## 2 - CEILING VS VISIBILITY

013750 : NORFOLK, VA  
PERIOD OF RECORD : 1945-1986  
CLASS : ALL WEATHER  
CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : OCT  
HOUR : 0400 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)									
	>=10	>=6	>=5	>=4	>=3	>=2 1/2	>=2	>=1 1/2	>=1 1/4	>=1
UNLIMIT	7.0	51.6	55.6	57.7	59.2	59.7	60.8	61.3	61.3	61.6
>=20000	7.0	52.7	56.8	59.1	60.7	61.2	62.3	62.7	62.8	63.1
>=18000	7.0	52.8	56.9	59.2	60.8	61.3	62.3	62.8	62.9	63.2
>=16000	7.1	52.9	57.0	59.2	60.9	61.3	62.4	62.9	63.0	63.3
>=14000	7.1	53.1	57.2	59.5	61.1	61.6	62.7	63.1	63.2	63.5
>=12000	7.1	53.9	58.0	60.2	61.9	62.3	63.4	63.9	64.0	64.3
>=10000	7.1	56.1	60.6	63.0	64.7	65.1	66.2	66.8	66.8	67.2
>=9000	7.1	56.3	60.9	63.4	65.0	65.5	66.5	67.1	67.2	67.5
>=8000	7.5	59.4	64.2	66.8	68.4	68.9	70.0	70.6	70.7	71.0
>=7000	7.5	60.2	65.2	67.8	69.4	70.0	71.0	71.6	71.7	72.0
>=6000	7.6	60.4	65.5	68.0	69.6	70.2	71.3	71.8	71.9	72.2
>=5000	7.6	61.1	66.2	68.9	70.5	71.0	72.1	72.7	72.7	73.1
>=4500	7.7	61.8	67.0	69.6	71.3	71.8	72.9	73.4	73.5	73.8
>=4000	7.9	63.1	68.4	71.0	72.7	73.2	74.3	74.8	74.9	75.2
>=3500	8.3	66.8	72.4	75.3	77.0	77.6	78.6	79.3	79.3	79.7
>=3000	8.4	68.2	74.0	76.9	78.7	79.3	80.4	81.0	81.1	81.4
>=2500	8.5	69.3	75.2	78.2	80.3	80.8	81.9	82.5	82.6	82.9
>=1800	8.5	69.4	75.5	78.5	80.6	81.1	82.2	82.8	82.9	83.2
>=1500	8.7	71.0	77.2	80.2	82.5	83.0	84.2	84.8	84.9	85.2
>=1200	8.9	72.0	78.4	81.7	84.2	84.7	85.9	86.5	86.6	86.9
>=1000	8.9	73.4	80.3	83.8	86.5	87.1	88.3	88.9	89.0	89.4
>=900	8.9	74.0	80.9	84.5	87.3	88.0	89.1	89.8	89.8	90.2
>=800	9.0	74.5	81.6	85.5	88.4	89.1	90.4	91.1	91.1	91.5
>=700	9.1	75.2	82.5	86.6	89.8	90.5	91.7	92.4	92.5	92.9
>=600	9.1	75.4	83.0	87.2	90.5	91.2	92.5	93.3	93.4	93.8
>=500	9.1	75.9	83.5	87.9	91.4	92.2	93.8	94.7	94.8	95.3
>=400	9.1	76.0	83.6	88.0	91.6	92.4	94.3	95.4	95.5	96.0
>=300	9.1	76.1	83.7	88.3	91.9	92.7	94.6	95.8	95.9	96.5
>=200	9.1	76.2	83.8	88.4	92.1	93.0	95.0	96.4	96.4	97.1
>=100	9.1	76.2	83.8	88.4	92.1	93.0	95.0	96.4	96.5	97.3
>=0	9.1	76.2	83.8	88.4	92.1	93.0	95.0	96.4	96.5	97.3

TOTAL NO. OF OPS : 1288



## 2 - CEILING VS VISIBILITY

013750 : NORFOLK, VA  
PERIOD OF RECORD : 1945-1986  
CLASS : ALL WEATHER  
CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : OCT  
HOUR : 0700 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)															
	>=10	>=6	>=5	>=4	>=3	>= 1/2	>=2	>=1	1/2	>=1	3/4	>=5/8	>=1/2	>=5/16	>=1/4	>=0
UNLIMIT	5.2	36.3	41.5	45.7	49.6	50.1	51.4	51.7	51.7	51.7	52.1	52.4	52.8	52.9	52.9	53.1
>=20000	5.4	38.1	43.7	48.0	52.1	52.8	54.2	54.8	54.8	54.8	55.2	55.6	55.9	56.1	56.1	56.3
>=18000	5.4	38.1	43.7	48.1	52.2	52.9	54.3	54.9	54.9	54.9	55.2	55.6	56.0	56.2	56.2	56.4
>=16000	5.4	38.2	43.8	48.3	52.4	53.1	54.5	55.0	55.0	55.0	55.4	55.8	56.2	56.3	56.3	56.6
>=14000	5.4	38.9	44.6	49.0	53.1	53.8	55.2	55.8	55.8	55.8	56.2	56.6	57.0	57.1	57.1	57.3
>=12000	5.5	40.0	45.9	50.4	54.5	55.2	56.6	57.2	57.2	57.2	57.6	58.0	58.4	58.5	58.5	58.7
>=10000	5.9	43.7	50.1	54.8	59.3	60.0	61.5	62.1	62.1	62.1	62.5	62.9	63.2	63.4	63.4	63.7
>=9000	5.9	44.2	50.6	55.2	59.8	60.5	62.0	62.6	62.6	62.6	63.0	63.4	63.8	63.9	63.9	64.3
>=8000	6.1	47.9	54.5	59.8	64.5	65.2	66.7	67.4	67.4	67.4	67.8	68.2	68.6	68.8	68.8	69.1
>=7000	6.1	48.7	55.6	60.9	65.7	66.4	68.0	68.7	68.7	68.7	69.1	69.5	69.9	70.0	70.0	70.3
>=6000	6.4	49.3	56.3	61.6	66.4	67.1	68.7	69.4	69.4	69.4	69.8	70.2	70.6	70.7	70.7	71.0
>=5000	6.5	50.4	57.5	62.9	67.9	68.6	70.2	70.9	70.9	70.9	71.3	71.6	72.0	72.2	72.2	72.5
>=4500	6.5	50.7	57.7	63.2	68.2	68.9	70.5	71.2	71.2	71.2	71.6	72.0	72.3	72.5	72.5	72.8
>=4000	6.7	52.3	59.6	65.2	70.2	70.9	72.6	73.3	73.3	73.3	73.7	74.0	74.5	74.7	74.7	75.0
>=3500	6.7	52.8	60.2	65.9	70.9	71.6	73.3	74.0	74.0	74.0	74.4	74.8	75.3	75.4	75.4	75.8
>=3000	6.9	54.6	62.5	68.2	73.3	74.2	76.0	76.7	76.7	76.7	77.1	77.5	77.9	78.1	78.1	78.4
>=2500	7.1	55.9	64.0	70.0	75.2	76.1	77.9	78.6	78.6	78.6	79.0	79.4	79.9	80.0	80.0	80.3
>=2000	7.2	57.6	66.3	72.7	78.1	79.1	81.0	81.7	81.7	81.7	82.1	82.4	82.9	83.1	83.1	83.4
>=1800	7.2	57.7	66.4	72.9	78.3	79.3	81.2	81.9	81.9	81.9	82.3	82.7	83.1	83.3	83.3	83.6
>=1500	7.2	58.0	66.9	73.7	79.2	80.3	82.1	82.8	82.8	82.8	83.2	83.7	84.1	84.3	84.3	84.6
>=1200	7.3	59.1	68.2	75.3	80.8	82.0	83.9	84.6	84.6	84.6	85.0	85.5	86.0	86.2	86.2	86.5
>=1000	7.3	59.9	69.2	76.6	82.4	83.8	85.8	86.5	86.5	86.5	86.9	87.4	87.9	88.0	88.0	88.3
>=900	7.3	60.3	69.6	77.1	83.1	84.4	86.5	87.2	87.2	87.2	87.6	88.2	88.7	88.8	88.8	89.1
>=800	7.4	60.7	70.1	77.9	84.1	85.5	87.6	88.3	88.3	88.3	88.9	89.4	89.9	90.1	90.1	90.4
>=700	7.4	61.1	70.9	78.9	85.5	87.1	89.4	90.2	90.2	90.2	90.8	91.3	91.8	91.9	91.9	92.2
>=600	7.4	61.2	71.2	79.3	86.0	87.6	90.1	90.8	90.8	90.8	91.5	92.0	92.5	92.6	92.6	92.9
>=500	7.4	61.3	71.5	79.8	86.8	88.7	91.4	92.3	92.3	92.3	93.1	93.8	94.3	94.5	94.5	94.8
>=400	7.4	61.4	71.7	80.1	87.3	89.3	92.2	93.2	93.2	93.2	94.2	94.9	95.4	95.6	95.6	95.9
>=300	7.4	61.5	71.9	80.3	87.6	89.3	92.8	93.9	93.9	93.9	95.0	96.0	96.6	96.7	96.8	97.1
>=200	7.4	61.5	71.9	80.3	87.6	89.8	93.0	94.3	94.3	94.3	95.6	96.6	97.4	97.7	97.9	98.4
>=100	7.4	61.5	71.9	80.3	87.6	89.8	93.1	94.3	94.3	94.3	95.7	97.0	98.1	98.4	98.6	99.2
>=0	7.4	61.5	71.9	80.3	87.6	89.8	93.1	94.3	94.3	94.3	95.7	97.0	98.1	98.4	98.7	100.0

TOTAL NO. OF OBS : 1297



## 2 - CEILING VS VISIBILITY

013750 : NORFOLK, VA  
PERIOD OF RECORD : 1945-1986  
CLASS : ALL WEATHER  
CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : OCT  
HOUR : 1000 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)									
	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=1	1/2	>=1/4
UNLIMIT	9.0	46.9	52.3	54.4	55.9	56.1	56.2	56.2	56.2	56.2
>=20000	9.2	49.4	55.0	57.4	59.0	59.5	59.6	59.8	59.8	56.2
>=18000	9.4	49.5	55.1	57.6	59.1	59.7	59.8	59.9	59.9	59.8
>=16000	9.4	49.7	55.3	57.7	59.3	59.8	60.1	60.1	60.1	59.9
>=14000	9.6	50.2	55.9	58.3	59.9	60.5	60.7	60.7	60.7	60.1
>=12000	9.6	51.4	57.3	59.8	61.3	61.9	62.1	62.1	62.1	60.7
>=10000	9.8	54.9	61.3	64.0	65.7	66.2	66.3	66.5	66.5	62.1
>=9000	9.8	54.9	61.3	64.0	65.7	66.2	66.3	66.5	66.5	62.1
>=8000	10.1	58.2	64.7	67.7	69.4	70.0	70.2	70.2	70.2	66.5
>=7000	10.2	58.7	65.2	68.2	70.1	70.7	70.9	70.9	70.9	66.5
>=6000	10.3	59.2	65.8	68.7	70.7	71.2	71.3	71.5	71.5	70.9
>=5000	10.5	60.1	66.8	69.8	71.9	72.5	72.7	72.7	72.7	71.5
>=4500	10.5	60.5	67.2	70.2	72.3	72.9	73.1	73.1	73.1	72.7
>=4000	10.5	61.6	68.4	71.4	73.6	74.1	74.3	74.3	74.3	73.1
>=3500	10.6	62.3	69.4	72.5	74.7	75.3	75.5	75.5	75.5	73.1
>=3000	11.0	64.6	72.4	75.8	78.1	78.6	78.9	78.9	78.9	74.3
>=2500	11.4	65.8	73.6	77.1	79.5	80.0	80.4	80.5	80.5	75.5
>=2000	11.6	68.0	76.2	79.9	82.4	83.0	83.4	83.5	83.5	75.5
>=1800	11.6	68.3	76.4	80.3	82.8	83.4	83.8	83.9	83.9	80.5
>=1500	11.9	70.4	79.0	83.2	86.0	86.6	87.0	87.1	87.1	83.5
>=1200	12.0	71.8	80.6	85.3	88.2	88.8	89.3	89.4	89.4	83.9
>=1000	12.0	72.8	81.6	86.5	89.5	90.2	90.7	90.8	90.8	87.1
>=900	12.0	73.2	82.1	87.1	90.0	90.8	91.3	91.4	91.4	89.4
>=800	12.0	73.9	83.2	88.2	91.7	92.5	93.1	93.4	93.8	90.8
>=700	12.0	74.2	83.5	88.8	92.3	93.1	94.0	94.3	94.7	91.4
>=600	12.1	74.7	84.1	89.5	93.1	94.1	95.2	95.6	96.1	93.8
>=500	12.1	74.8	84.4	90.0	93.7	94.9	96.3	96.8	97.3	94.7
>=400	12.1	74.8	84.4	90.0	94.0	95.6	97.2	98.0	98.5	96.1
>=300	12.1	74.8	84.4	90.0	94.1	95.7	97.4	98.4	98.5	97.3
>=200	12.1	74.8	84.4	90.0	94.1	95.7	97.5	98.4	99.1	98.5
>=100	12.1	74.8	84.4	90.0	94.1	95.7	97.5	98.4	99.1	99.2
>=0	12.1	74.8	84.4	90.0	94.1	95.7	97.5	98.4	99.1	99.7
>=0	12.1	74.8	84.4	90.0	94.1	95.7	97.5	98.4	99.1	100.0

TOTAL NO. OF OBS : 1282



## 2 - CEILING VS VISIBILITY

013750 : NORFOLK, VA  
 PERIOD OF RECORD : 1945-1986  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
 MONTH : OCT  
 HOUR : 1300 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)															
	>=10	>=6	>=5	>=4	>=3	>=2 1/2	>=2	>=1 1/2	>=1	>=3/4	>=5/8	>=1/2	>=5/16	>=1/4	>=0	
UNLIMIT	13.5	51.7	53.5	54.8	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	
>=20000	14.0	54.9	57.0	58.5	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	
>=18000	14.1	55.1	57.3	58.8	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	
>=16000	14.4	55.5	57.6	59.1	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	59.8	
>=14000	14.4	55.9	58.1	59.6	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	
>=12000	14.7	57.5	59.6	61.1	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	
>=10000	15.1	60.7	62.9	64.5	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	
>= 9000	15.1	61.1	63.3	64.9	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	
>= 8000	15.4	64.5	66.9	68.6	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	
>= 7000	15.6	65.2	67.7	69.4	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	
>= 6000	15.6	65.4	67.9	69.5	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	
>= 5000	15.7	65.8	68.2	69.9	70.8	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	70.9	
>= 4500	16.0	66.7	69.1	70.8	71.6	71.7	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	
>= 4000	16.1	68.5	71.1	72.9	73.8	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	
>= 3500	16.4	69.8	72.5	74.4	75.4	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	
>= 3000	17.1	73.5	76.5	78.6	79.6	79.7	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	
>= 2500	17.2	76.0	79.1	81.2	82.2	82.4	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	
>= 2000	17.7	78.4	81.8	84.2	85.4	85.6	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	
>= 1800	17.7	78.9	82.4	84.8	85.9	86.2	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	
>= 1500	17.8	80.5	84.2	86.7	88.2	88.5	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	
>= 1200	17.9	81.5	85.7	88.7	90.4	90.8	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	
>= 1000	17.9	81.9	86.3	89.4	91.5	92.2	92.4	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	
>= 900	17.9	82.1	86.9	90.0	92.2	92.9	93.1	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	
>= 800	17.9	82.4	87.3	90.9	93.4	94.2	94.6	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	
>= 700	17.9	82.8	87.8	91.5	94.5	95.4	95.9	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	
>= 600	17.9	82.8	87.8	91.7	94.7	95.8	96.6	97.0	97.0	97.1	97.1	97.1	97.1	97.1	97.1	
>= 500	17.9	82.9	88.3	92.4	95.4	96.8	97.9	98.3	98.3	98.4	98.5	98.5	98.5	98.5	98.5	
>= 400	17.9	82.9	88.4	92.5	95.7	97.2	98.5	99.0	99.0	99.1	99.2	99.2	99.2	99.2	99.2	
>= 300	17.9	82.9	88.4	92.5	95.8	97.2	98.7	99.2	99.2	99.6	99.8	99.8	99.8	99.8	99.8	
>= 200	17.9	82.9	88.4	92.5	95.8	97.2	98.7	99.2	99.2	99.6	99.8	99.8	99.8	99.8	99.8	
>= 100	17.9	82.9	88.4	92.5	95.8	97.2	98.7	99.2	99.2	99.6	99.8	99.8	99.8	99.8	99.8	
>= 0	17.9	82.9	88.4	92.5	95.8	97.2	98.7	99.2	99.2	99.6	99.8	99.8	99.8	99.8	99.8	

TOTAL NO. OF OBS : 1266



## 2 - CEILING VS VISIBILITY

013750 : NORFOLK, VA  
PERIOD OF RECORD : 1945-1986  
CLASS : ALL WEATHER  
CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : OCT  
HOUR : 1600 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)									
	>=10	>=6	>=5	>=4	>=3	>=2 1/2	>=2	>=1 1/2	>=1 1/4	>=1
UNLIMIT	13.2	52.9	53.8	55.0	55.3	55.6	55.6	55.6	55.6	55.6
>=20000	14.1	57.1	58.0	59.4	59.7	60.0	60.0	60.0	60.0	60.0
>=18000	14.2	57.4	58.4	59.8	60.1	60.3	60.4	60.4	60.4	60.4
>=16000	14.3	57.7	58.6	60.0	60.3	60.6	60.7	60.7	60.7	60.7
>=14000	14.4	58.1	59.0	60.4	60.7	61.0	61.1	61.1	61.1	61.1
>=12000	14.7	59.8	60.8	62.3	62.6	62.9	62.9	62.9	62.9	62.9
>=10000	15.0	63.1	64.3	65.8	66.1	66.4	66.5	66.5	66.5	66.5
>=9000	15.0	63.3	64.5	66.1	66.4	66.6	66.7	66.7	66.7	66.7
>=8000	15.3	67.4	68.8	70.5	70.8	71.0	71.1	71.1	71.1	71.1
>=7000	15.4	68.7	70.1	71.8	72.2	72.4	72.5	72.5	72.5	72.5
>=6000	15.4	69.0	70.5	72.2	72.6	72.8	72.9	72.9	72.9	72.9
>=5000	15.6	70.5	72.1	73.8	74.2	74.5	74.5	74.5	74.5	74.5
>=4500	15.7	71.6	73.2	75.0	75.4	75.6	75.7	75.7	75.7	75.7
>=4000	16.0	73.7	75.3	77.1	77.5	77.7	77.8	77.8	77.8	77.8
>=3500	16.1	74.3	75.9	77.7	78.1	78.4	78.5	78.5	78.5	78.5
>=3000	16.5	77.3	79.2	81.3	81.7	82.1	82.1	82.1	82.1	82.1
>=2500	16.8	78.8	81.1	83.5	84.0	84.3	84.5	84.5	84.5	84.5
>=2000	16.8	80.4	82.9	85.6	86.2	86.5	86.8	86.8	86.8	86.8
>=1800	16.9	80.9	83.4	86.1	86.8	87.1	87.4	87.4	87.4	87.4
>=1500	16.9	82.2	85.0	87.8	88.5	88.8	89.1	89.1	89.1	89.1
>=1200	17.0	83.0	86.1	89.0	90.0	90.3	90.8	90.8	90.8	90.8
>=1000	17.0	83.3	86.7	89.8	91.1	91.7	92.4	92.4	92.4	92.4
>=900	17.0	83.5	87.1	90.4	92.1	92.6	93.5	93.5	93.5	93.5
>=800	17.0	83.9	87.5	90.8	92.8	93.4	94.6	94.7	94.7	94.7
>=700	17.0	84.1	87.8	91.1	93.1	94.0	95.8	96.0	96.1	96.1
>=600	17.0	84.2	87.9	91.3	93.3	94.2	96.2	96.5	96.6	96.6
>=500	17.0	84.2	87.9	91.7	93.8	94.8	97.1	97.4	97.5	97.5
>=400	17.0	84.2	88.2	92.1	94.3	95.3	97.5	98.3	98.9	98.9
>=300	17.0	84.3	88.2	92.2	94.4	95.5	97.7	98.6	99.1	99.5
>=200	17.0	84.3	88.2	92.2	94.4	95.5	97.7	98.6	99.1	99.5
>=100	17.0	84.3	88.2	92.2	94.4	95.5	97.7	98.6	99.1	99.5
>=0	17.0	84.3	88.2	92.2	94.4	95.5	97.7	98.6	99.1	99.5

TOTAL NO. OF OBS : 1276



## 2 - CEILING VS VISIBILITY

013750 : NORFOLK, VA  
PERIOD OF RECORD : 1945-1986  
CLASS : ALL WEATHER  
CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : OCT  
HOUR : 1900 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)																		
	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=2	>=1	1/2	>=1	1/4	>=1	>=3/4	>=5/8	>=1/2	>=5/16	>=1/4	>=0
UNLIMIT	9.4	54.4	56.3	57.2	57.6	57.8	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0
>=20000	9.7	57.2	59.2	60.4	60.9	61.1	61.2	61.2	61.2	61.2	61.2	61.2	61.3	61.3	61.3	61.3	61.3	61.3	61.3
>=18000	9.8	57.3	59.4	60.5	61.0	61.2	61.4	61.4	61.4	61.4	61.4	61.4	61.5	61.5	61.5	61.5	61.5	61.5	61.5
>=16000	9.8	57.5	59.6	60.8	61.2	61.5	61.6	61.6	61.6	61.6	61.6	61.6	61.7	61.7	61.7	61.7	61.7	61.7	61.7
>=14000	10.0	58.0	60.1	61.2	61.7	62.0	62.1	62.1	62.1	62.1	62.1	62.1	62.2	62.2	62.2	62.2	62.2	62.2	62.2
>=12000	10.1	59.0	61.2	62.3	62.8	63.0	63.2	63.2	63.2	63.2	63.2	63.2	63.3	63.3	63.3	63.3	63.3	63.3	63.3
>=10000	10.5	62.3	64.8	66.0	66.6	66.8	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0	67.0
>= 9000	10.5	62.8	65.2	66.5	67.0	67.3	67.4	67.4	67.4	67.4	67.4	67.4	67.5	67.5	67.5	67.5	67.5	67.5	67.5
>= 8000	10.5	66.8	69.5	70.8	71.5	71.7	71.9	71.9	71.9	71.9	71.9	71.9	72.0	72.0	72.0	72.0	72.0	72.0	72.0
>= 7000	10.5	68.1	70.9	72.2	72.9	73.1	73.3	73.3	73.3	73.3	73.3	73.3	73.4	73.4	73.4	73.4	73.4	73.4	73.4
>= 6000	10.5	68.7	71.5	72.8	73.5	73.7	73.9	73.9	73.9	73.9	73.9	73.9	74.0	74.0	74.0	74.0	74.0	74.0	74.0
>= 5000	10.7	69.5	72.3	73.7	74.4	74.6	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8
>= 4500	10.8	70.2	73.0	74.5	75.2	75.5	75.6	75.6	75.6	75.6	75.6	75.6	75.7	75.7	75.7	75.7	75.7	75.7	75.7
>= 4000	10.9	71.8	74.7	76.2	77.0	77.3	77.4	77.4	77.4	77.4	77.4	77.4	77.5	77.5	77.5	77.5	77.5	77.5	77.5
>= 3500	10.9	72.7	75.6	77.2	78.0	78.2	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4
>= 3000	11.3	75.8	79.1	80.9	81.8	82.0	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3
>= 2500	11.3	77.0	80.6	82.5	83.6	83.8	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1
>= 2000	11.3	79.5	83.6	85.5	86.7	87.0	87.2	87.2	87.2	87.2	87.2	87.2	87.3	87.3	87.3	87.3	87.3	87.3	87.3
>= 1800	11.3	79.9	84.0	85.9	87.1	87.3	87.6	87.6	87.6	87.6	87.6	87.6	87.7	87.7	87.7	87.7	87.7	87.7	87.7
>= 1500	11.3	81.5	85.9	88.0	89.2	89.5	89.7	89.7	89.7	89.7	89.7	89.7	89.8	89.8	89.8	89.8	89.8	89.8	89.8
>= 1200	11.4	82.7	87.3	90.1	91.3	91.6	91.9	91.9	91.9	91.9	91.9	91.9	92.0	92.0	92.0	92.0	92.0	92.0	92.0
>= 1000	11.5	83.7	88.4	91.2	92.4	92.7	93.3	93.3	93.3	93.3	93.3	93.3	93.4	93.4	93.4	93.4	93.4	93.4	93.4
>= 900	11.6	84.1	88.9	92.0	93.3	93.6	94.2	94.2	94.2	94.2	94.2	94.2	94.3	94.3	94.3	94.3	94.3	94.3	94.3
>= 800	11.6	84.5	89.3	92.6	94.2	94.6	95.2	95.3	95.3	95.3	95.3	95.3	95.4	95.4	95.4	95.4	95.4	95.4	95.4
>= 700	11.6	84.6	89.5	92.8	94.7	95.1	95.8	95.8	95.8	95.8	95.8	95.8	95.9	95.9	95.9	95.9	95.9	95.9	95.9
>= 600	11.6	84.8	89.8	93.3	95.2	95.6	96.6	96.6	96.6	96.6	96.6	96.6	96.8	96.8	96.8	96.8	96.8	96.8	96.8
>= 500	11.6	85.1	90.2	93.6	95.8	96.5	97.7	97.7	97.7	97.7	97.7	97.7	98.0	98.0	98.0	98.0	98.0	98.0	98.0
>= 400	11.6	85.1	90.2	93.7	95.9	97.0	98.2	98.2	98.2	98.2	98.2	98.2	98.5	98.5	98.5	98.5	98.5	98.5	98.5
>= 300	11.6	85.1	90.2	93.8	96.1	97.1	98.4	98.4	98.4	98.4	98.4	98.4	98.7	98.7	98.7	98.7	98.7	98.7	98.7
>= 200	11.6	85.1	90.2	93.8	96.1	97.1	98.4	98.4	98.4	98.4	98.4	98.4	98.8	98.8	98.8	98.8	98.8	98.8	98.8
>= 100	11.6	85.1	90.2	93.8	96.1	97.1	98.4	98.4	98.4	98.4	98.4	98.4	98.8	98.8	98.8	98.8	98.8	98.8	98.8
>= 0	11.6	85.1	90.2	93.8	96.1	97.1	98.4	98.4	98.4	98.4	98.4	98.4	98.8	98.8	98.8	98.8	98.8	98.8	100.0

TOTAL NO. OF OBS : 1280



## 2 - CEILING VS VISIBILITY

013750 : NORFOLK, VA  
 PERIOD OF RECORD : 1945-1986  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
 MONTH : OCT  
 HOUR : 2200 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING	>=10	>=6	>=5	>=4	>=3	VISIBILITY (STATUTE MILES)								>=1	>=3/4	>=5/8	>=1/2	>=5/16	>=1/4	>=0
UNLIMIT	8.5	54.6	57.4	59.3	60.4	60.5	60.9	61.1	61.1	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.3	61.4	61.4	61.5
>=20000	8.6	56.8	59.5	61.6	62.9	63.0	63.4	63.6	63.6	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.8	63.9	63.9	64.0
>=19000	8.7	56.8	59.6	61.7	63.0	63.0	63.5	63.7	63.7	63.7	63.7	63.7	63.7	63.8	63.8	63.8	63.9	64.0	64.0	64.1
>=16000	8.8	56.9	59.7	61.8	63.0	63.1	63.6	63.7	63.7	63.7	63.7	63.7	63.7	63.9	63.9	63.9	64.0	64.1	64.1	64.1
>=14000	8.9	57.5	60.3	62.4	63.7	63.7	64.2	64.4	64.4	64.4	64.4	64.4	64.4	64.5	64.5	64.5	64.6	64.7	64.7	64.8
>=12000	8.9	58.4	61.3	63.4	64.6	64.7	65.1	65.3	65.3	65.3	65.3	65.3	65.3	65.5	65.5	65.5	65.6	65.6	65.6	65.7
>=10000	9.4	62.0	65.1	67.2	68.6	68.6	69.1	69.3	69.3	69.3	69.3	69.3	69.3	69.4	69.4	69.4	69.5	69.6	69.6	69.6
>= 9000	9.5	62.6	65.7	67.9	69.2	69.3	69.7	69.9	69.9	69.9	69.9	69.9	69.9	70.0	70.0	70.0	70.1	70.2	70.2	70.3
>= 8000	9.6	65.7	68.9	71.3	72.8	72.9	73.4	73.5	73.5	73.5	73.5	73.5	73.5	73.7	73.7	73.7	73.8	73.8	73.8	73.9
>= 7000	9.6	66.9	70.2	72.5	74.1	74.1	74.6	74.8	74.8	74.8	74.8	74.8	74.8	74.9	74.9	74.9	75.0	75.1	75.1	75.2
>= 6000	9.6	67.0	70.3	72.6	74.1	74.2	74.7	74.8	74.8	74.8	74.8	74.8	74.8	75.0	75.0	75.0	75.1	75.2	75.2	75.2
>= 5000	9.9	68.2	71.4	73.8	75.3	75.4	75.9	76.0	76.0	76.0	76.0	76.0	76.0	76.2	76.2	76.2	76.3	76.3	76.3	76.4
>= 4500	10.1	68.9	72.2	74.5	76.1	76.2	76.6	76.8	76.8	76.8	76.8	76.8	76.8	76.9	76.9	76.9	77.0	77.1	77.1	77.2
>= 4000	10.3	71.3	74.7	77.0	78.6	78.7	79.2	79.3	79.3	79.3	79.3	79.3	79.3	79.5	79.5	79.5	79.6	79.7	79.7	79.7
>= 3500	10.3	72.2	75.9	78.3	79.8	80.0	80.4	80.6	80.6	80.6	80.6	80.6	80.6	80.7	80.7	80.7	80.8	80.9	80.9	81.0
>= 3000	10.4	74.3	78.3	80.7	82.2	82.4	82.8	83.0	83.0	83.0	83.0	83.0	83.0	83.2	83.2	83.2	83.3	83.3	83.3	83.4
>= 2500	10.4	75.5	79.5	81.9	83.5	83.7	84.2	84.3	84.3	84.3	84.3	84.3	84.3	84.5	84.5	84.5	84.6	84.6	84.6	84.7
>= 2000	10.6	77.3	81.4	83.9	85.6	85.9	86.3	86.5	86.5	86.5	86.5	86.5	86.5	86.6	86.6	86.6	86.7	86.8	86.8	86.9
>= 1800	10.6	77.6	81.8	84.4	86.1	86.3	86.8	87.0	87.0	87.0	87.0	87.0	87.0	87.1	87.1	87.1	87.2	87.3	87.3	87.3
>= 1500	10.6	78.8	83.0	85.6	87.4	87.8	88.4	88.6	88.6	88.6	88.6	88.6	88.6	88.7	88.7	88.7	88.8	88.9	88.9	89.0
>= 1200	10.9	80.0	84.3	87.2	89.3	89.7	90.4	90.5	90.5	90.5	90.5	90.5	90.5	90.7	90.7	90.7	90.8	90.8	90.8	90.9
>= 1000	11.0	80.7	85.6	88.7	90.8	91.3	92.1	92.2	92.2	92.2	92.2	92.2	92.2	92.4	92.4	92.4	92.5	92.5	92.5	92.6
>= 900	11.0	81.1	86.2	89.3	91.5	91.9	92.7	92.9	92.9	92.9	92.9	92.9	92.9	93.0	93.0	93.0	93.1	93.2	93.2	93.2
>= 800	11.1	81.4	86.8	90.0	92.3	92.8	93.6	93.8	93.8	93.8	93.8	93.8	93.8	93.9	93.9	93.9	94.0	94.1	94.1	94.2
>= 700	11.1	82.4	88.0	91.5	94.0	94.5	95.3	95.7	95.7	95.7	95.7	95.7	95.7	95.8	95.8	95.8	95.9	96.0	96.0	96.0
>= 600	11.1	82.5	88.1	91.8	94.3	94.7	95.7	96.1	96.1	96.1	96.1	96.1	96.1	96.3	96.3	96.3	96.4	96.4	96.4	96.5
>= 500	11.1	82.8	88.7	92.4	94.9	95.3	96.4	97.0	97.0	97.0	97.0	97.0	97.0	97.1	97.1	97.1	97.2	97.3	97.3	97.4
>= 400	11.1	82.9	88.7	92.9	95.4	96.0	97.3	97.8	97.8	97.8	97.8	97.8	97.8	98.0	98.0	98.0	98.1	98.1	98.1	98.2
>= 300	11.1	83.0	88.8	93.0	95.8	96.4	97.7	98.3	98.3	98.3	98.3	98.3	98.3	98.5	98.5	98.5	98.6	98.7	98.8	98.8
>= 200	11.1	83.0	88.8	93.0	95.9	96.5	98.1	98.7	98.7	98.7	98.7	98.7	98.7	99.0	99.0	99.0	99.1	99.2	99.4	99.5
>= 100	11.1	83.0	88.8	93.0	95.9	96.5	98.1	98.7	98.7	98.7	98.7	98.7	98.7	99.0	99.0	99.0	99.1	99.3	99.5	99.7
>= 0	11.1	83.0	88.8	93.0	95.9	96.5	98.1	98.7	98.7	98.7	98.7	98.7	98.7	99.0	99.0	99.1	99.3	99.5	99.6	100.0

TOTAL NO. OF OBS : 1288



## 2 - CEILING VS VISIBILITY

013750 : NORFOLK, VA  
PERIOD OF RECORD : 1945-1986  
CLASS : ALL WEATHER  
CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : OCT  
HOUR : ALL

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)									
	>=10	>=6	>=5	>=4	>=3	>=2 1/2	>=2	>=1 1/2	>=1 1/4	>=1
UNLIMIT	9.2	50.1	53.2	55.2	56.6	56.9	57.4	57.5	57.6	57.7
>=20000	9.5	52.5	55.8	58.0	59.5	59.8	60.4	60.6	60.6	60.7
>=18000	9.6	52.7	56.0	58.1	59.7	60.0	60.5	60.7	60.7	60.9
>=16000	9.7	52.8	56.1	58.3	59.8	60.2	60.7	60.9	60.9	61.0
>=14000	9.8	53.3	56.6	58.8	60.3	60.7	61.2	61.4	61.4	61.5
>=12000	9.9	54.4	57.9	60.0	61.6	61.9	62.4	62.6	62.7	62.8
>=10000	10.2	57.6	61.3	63.6	65.2	65.6	66.1	66.3	66.4	66.5
>= 9000	10.2	58.0	61.7	64.0	65.6	66.0	66.5	66.7	66.7	66.9
>= 8000	10.4	61.6	65.5	68.0	69.7	70.1	70.6	70.9	70.9	71.0
>= 7000	10.5	62.5	66.5	69.1	70.8	71.2	71.7	72.0	72.0	72.1
>= 6000	10.6	62.9	66.9	69.5	71.2	71.6	72.1	72.4	72.4	72.5
>= 5000	10.7	63.9	68.0	70.6	72.4	72.7	73.3	73.5	73.5	73.7
>= 4500	10.8	64.6	69.7	71.3	73.1	73.5	74.0	74.3	74.3	74.4
>= 4000	11.0	66.3	70.5	73.2	75.0	75.4	76.0	76.2	76.2	76.4
>= 3500	11.0	67.1	71.5	74.2	76.0	76.4	77.0	77.3	77.3	77.4
>= 3000	11.4	69.7	74.5	77.3	79.2	79.6	80.2	80.5	80.5	80.6
>= 2500	11.5	71.1	76.0	79.0	81.0	81.4	82.1	82.3	82.3	82.5
>= 2000	11.7	72.9	78.2	81.3	83.5	83.9	84.6	84.8	84.8	85.0
>= 1800	11.7	73.2	78.5	81.8	83.9	84.4	85.0	85.3	85.3	85.4
>= 1500	11.8	74.5	80.1	83.5	85.7	86.2	86.9	87.2	87.2	87.3
>= 1200	11.9	75.6	81.4	85.1	87.6	88.1	88.9	89.1	89.1	89.3
>= 1000	11.9	76.5	82.5	86.4	89.1	89.7	90.6	90.8	90.8	91.0
>= 900	11.9	76.9	83.1	87.1	89.9	90.5	91.4	91.7	91.7	91.9
>= 800	12.0	77.4	83.8	88.0	91.0	91.7	92.7	93.0	93.1	93.3
>= 700	12.0	77.8	84.3	88.8	91.9	92.7	93.9	94.3	94.3	94.5
>= 600	12.0	78.0	84.7	89.2	92.4	93.3	94.6	95.1	95.1	95.3
>= 500	12.0	78.2	85.0	89.7	93.1	94.2	95.7	96.2	96.3	96.6
>= 400	12.0	78.3	85.1	89.9	93.5	94.6	96.4	97.1	97.1	97.5
>= 300	12.0	78.3	85.2	90.1	93.7	94.9	96.7	97.5	97.5	98.0
>= 200	12.0	78.3	85.2	90.1	93.8	95.0	96.9	97.7	97.7	98.3
>= 100	12.0	78.3	85.2	90.1	93.8	95.0	96.9	97.7	97.8	98.4
>= 0	12.0	78.3	85.2	90.1	93.8	95.0	96.9	97.7	97.8	98.4

TOTAL NO. OF OBS : 10243



# 1 - SURFACE WINDS

013750 : NORFOLK, VA  
 PERIOD OF RECORD : 1945-1986  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
 MONTH : NOV  
 HOUR : 0100 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>56	TOTAL	MEAN
												%	WIND SPEED
N	.4	.6	2.5	2.8	.5	.0	.0	.0	.0	.0	.0	6.7	10.8
NNE	.1	.7	1.5	2.3	1.0	.6	.2	.0	.0	.0	.0	6.3	13.5
NE	.3	1.3	2.1	1.2	.6	.1	.0	.0	.0	.0	.0	5.6	9.8
ENE	.6	1.0	1.0	.5	.1	.0	.0	.0	.0	.0	.0	3.0	7.1
E	.6	1.0	.9	.4	.1	.0	.0	.0	.0	.0	.0	2.9	6.9
ESE	.2	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.7	5.3
SE	.5	.6	.2	.3	.1	.2	.0	.0	.0	.0	.0	1.9	8.0
SSE	1.5	.8	1.3	.8	.0	.0	.0	.0	.0	.0	.0	4.4	6.4
S	2.0	2.4	2.8	1.4	.2	.2	.0	.0	.0	.0	.0	9.0	7.5
SSW	.6	2.4	4.5	2.6	.0	.0	.0	.0	.0	.0	.0	10.1	8.3
SW	1.3	2.9	3.9	1.7	.1	.1	.0	.0	.0	.0	.0	9.8	7.6
WSW	.6	1.3	1.4	.9	.2	.1	.0	.0	.0	.0	.0	4.4	8.0
W	.3	1.1	1.7	1.6	.2	.1	.0	.0	.0	.0	.0	5.1	9.6
WNW	.2	.8	2.1	1.2	.3	.1	.0	.0	.0	.0	.0	4.8	9.7
NW	.0	1.2	2.2	1.8	.4	.1	.0	.0	.0	.0	.0	5.7	10.5
NNW	.2	.8	3.7	2.7	.9	.1	.0	.0	.0	.0	.0	8.4	11.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11.0	.0
ALL	9.4	19.1	32.0	22.2	4.6	1.4	.2	.0	.0	.0	.0	103.0	8.1

TOTAL NO. OF OBS : 1260

NOTES :  
 \* = PERCENT < .05



# 1 - SURFACE WINDS

013750 : NORFOLK, VA  
 PERIOD OF RECORD : 1945-1986  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
 MONTH : NOV  
 HOUR : 0400 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

16	PT.	1	-	3	4	-	6	7	10	11	16	17	21	SPEED (KNOTS)					28	33	34	40	41	47	48	55	>56	TOTAL	MEAN	
DIR.																												%	WIND	SPEED
N		.3		1.6		1.6		1.6		2.4		1.0		1.0		.3		.0		.0		.0		.0		.0		7.2		11.2
NNE		.2		.9		2.1		2.1		2.8		1.0		1.0		1.0		.0		.0		.0		.0		.0		7.9		12.9
NE		.2		1.5		2.2		2.2		1.3		.4		.1		.1		.1		.0		.0		.0		.0		5.7		9.7
ENE		.2		1.0		1.4		1.4		.2		.1		.0		.0		.0		.0		.0		.0		.0		3.0		7.3
E		.2		.5		.6		.6		.2		.0		.0		.0		.0		.0		.0		.0		.0		1.5		7.4
ESE		.1		.7		.4		.4		.2		.0		.0		.0		.0		.0		.0		.0		.0		1.3		6.8
SE		.3		.6		.5		.5		.2		.0		.1		.1		.0		.0		.0		.0		.0		1.6		7.2
SSE		.9		1.0		.7		.7		.3		.1		.0		.0		.0		.0		.0		.0		.0		2.9		6.3
S		.7		2.1		2.2		2.2		1.0		.2		.0		.0		.0		.0		.0		.0		.0		6.3		7.9
SSW	1.3			2.8		4.3		4.3		1.9		.2		.0		.0		.0		.0		.0		.0		.0		10.4		7.7
SW	.9			2.4		3.7		3.7		1.0		.1		.0		.0		.0		.0		.0		.0		.0		8.0		7.6
WSW	.6			2.4		2.1		2.1		1.1		.2		.0		.0		.0		.0		.0		.0		.0		6.3		7.7
W	.7			1.0		2.5		2.5		1.9		.3		.0		.0		.0		.0		.0		.0		.0		6.4		8.9
WNW	.2			.7		1.6		1.6		1.3		.3		.0		.0		.0		.0		.0		.0		.0		4.2		10.0
NW	.2			1.3		2.2		2.2		1.5		.6		.0		.0		.0		.0		.0		.0		.0		5.9		9.6
NNW	.2			.8		3.7		3.7		4.5		.7		.0		.0		.0		.0		.0		.0		.0		9.8		11.1
VAR	.0			.0		.0		.0		.0		.0		.0		.0		.0		.0		.0		.0		.0		.0		.0
CLM	.0			.0		.0		.0		.0		.0		.0		.0		.0		.0		.0		.0		.0		11.4		.0
ALL	7.2			21.3		31.7		31.7		21.7		5.2		1.4		.1		.0		.0		.0		.0		.0		100.0		8.2

TOTAL NO. OF OBS : 1260

NOTES : \* = PERCENT < .05



# 1 - SURFACE WINDS

013750 : NORFOLK, VA  
 PERIOD OF RECORD : 1945-1986  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
 MONTH : NOV  
 HOUR : 0700 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

DIR.	SPEED (KNOTS)														TOTAL	MEAN	
	16 PT.	1	3	4	6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>56	%	WIND	SPEED
N	.6	1.2	2.6	4.1	.9	.2	.0	.0	.0	.0	.0	.0	.0	.0	9.6	11.2	
NNE	.3	.9	1.4	3.0	1.1	.9	.0	.1	.0	.0	.0	.0	.0	.0	7.6	13.2	
NE	.6	1.5	1.7	1.1	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	5.4	9.0	
ENE	.2	1.3	1.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.9	7.2	
E	.1	1.0	1.3	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.6	7.3	
ESE	.9	.3	.2	.1	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	1.5	6.2	
SE	.5	.7	.6	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.4	7.5	
SSE	1.0	1.3	.7	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.3	5.9	
S	1.0	1.9	1.9	1.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.9	7.2	
SSW	1.0	2.6	3.7	1.8	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.5	8.1	
SW	.8	3.7	2.6	1.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.4	7.0	
WSW	.8	1.7	1.9	1.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.7	7.9	
W	1.0	1.4	2.0	1.4	.6	.1	.0	.0	.0	.0	.0	.0	.0	.0	6.4	8.9	
WNW	.6	1.0	2.1	1.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.8	8.1	
NW	.6	.9	2.3	1.7	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	5.9	9.7	
NNW	.2	1.8	3.2	3.3	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	9.1	10.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CLM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.8	.0	
ALL	10.1	23.0	29.2	22.8	4.4	1.5	.1	.2	.0	.0	.0	.0	.0	.0	100.0	8.1	

TOTAL NO. OF OBS : 1259

NOTES : \* = PERCENT < .05



# 1 - SURFACE WINDS

013750 : NORFOLK, VA  
 PERIOD OF RECORD : 1945-1986  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
 MONTH : NOV  
 HOUR : 1000 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

DIP.	SPEED (KNOTS)																TOTAL %	MEAN WIND SPEED
	16-21	21-26	26-31	31-36	36-41	41-46	46-51	51-56	56-61	61-66	66-71	71-76	76-81	81-86	86-91	91-96		
N	.7	2.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	11.9	10.6
NNE	.5	1.0	2.6	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	9.9	12.4
NE	.2	1.1	2.4	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	5.1	9.1
ENE	.3	1.0	1.5	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	3.3	7.5
E	.2	.8	1.3	.8	.8	.8	.8	.8	.8	.8	.8	.8	.8	.8	.8	.8	3.1	8.2
ESE	.2	.6	1.2	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	2.5	6.7
SE	.1	.6	.9	.5	.5	.5	.5	.5	.5	.5	.5	.5	.5	.5	.5	.5	2.0	8.5
SSE	.2	1.3	1.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	.3	3.5	8.8
S	.1	1.4	2.2	1.5	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	5.5	9.3
SSW	.2	1.7	3.6	2.6	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6	8.9	9.9
SW	.6	2.3	2.6	1.8	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	7.7	8.7
WSW	.5	2.1	3.6	2.1	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	8.8	9.2
W	.5	1.5	2.4	2.0	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6	.6	7.1	10.0
WNW	.4	.9	1.7	1.8	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	.2	4.9	9.5
NW	.2	1.0	1.7	2.1	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4	5.3	10.6
NNW	.2	1.1	2.2	3.2	.9	.9	.9	.9	.9	.9	.9	.9	.9	.9	.9	.9	7.7	11.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
ALL	5.1	20.2	35.1	28.4	6.7	1.7	.1	.1	.1	.1	.1	.1	.1	.1	.1	.1	103.0	9.6

TOTAL NO. OF OBS : 1260

NOTES :  
 \* = PERCENT < .05



# 1 - SURFACE WINDS

013750 : NORFOLK, VA  
 PERIOD OF RECORD : 1945-1986  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
 MONTH : NOV  
 HOUR : 1300 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

DIP.	SPEED (KNOTS)																TOTAL	MEAN
	16 PT.	1	2	3	4	5	6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>=56	%	WIND
N	.7	3.0	2.9	2.9	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10.6	9.4
NNE	1.2	3.2	4.8	3.7	1.2	.2	.2	.0	.2	.2	.2	.0	.1	.0	.0	.0	14.4	9.9
NE	.4	1.3	2.4	.7	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.2	8.6
ENE	.3	1.3	2.2	1.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.2	8.6
E	.4	.5	1.5	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.9	7.9
ESE	.0	.0	.6	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	9.2
SE	.0	.5	.6	.6	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9	9.8
SSE	.1	.2	1.0	.9	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2	10.0
S	.2	1.1	1.8	1.7	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.4	9.8
SSW	.2	1.3	3.2	2.9	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.2	10.5
SW	.3	1.3	2.4	2.0	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.4	10.2
WSW	.4	1.8	2.2	3.4	.8	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.7	10.6
W	.4	2.7	4.5	2.9	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11.0	9.1
WNW	.2	.6	2.2	2.4	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.1	10.8
NW	.0	.3	1.6	2.2	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.7	11.5
NNW	.4	1.0	1.6	2.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.4	10.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	.0
ALL	5.2	20.2	35.6	29.9	7.0	1.0	.2	.0	.0	.0	.0	.0	.1	.0	.0	.0	100.0	9.7

TOTAL NO. OF OBS : 1260

NOTES : \* = PERCENT < .05



# 1 - SURFACE WINDS

013750 : NORFOLK, VA  
 PERIOD OF RECORD : 1945-1986  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
 MONTH : NOV  
 HOUR : 1600 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

16 PT.	1	3	4	6	7-10	11-16	17-21	SPEED (KNOTS)				TOTAL				MEAN
DIR.	1-3	4	6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>56	%	SPEED		
N	.5	.9	2.1	2.9	.6	.0	.1	.0	.0	.0	.0	.0	7.1	10.8		
NNE	.6	2.5	3.0	3.1	.8	.2	.1	.0	.0	.0	.0	.0	10.2	10.1		
NE	1.0	2.5	1.8	.7	.5	.2	.0	.0	.0	.0	.0	.0	6.7	7.8		
ENE	1.7	2.7	2.6	.5	.0	.1	.0	.0	.0	.0	.0	.0	7.5	6.3		
E	1.2	2.9	2.0	.6	.1	.0	.0	.0	.0	.0	.0	.0	6.7	6.4		
ESE	.4	1.2	.7	.3	.0	.1	.0	.0	.0	.0	.0	.0	2.7	7.1		
SE	.4	.6	1.1	.3	.1	.0	.0	.0	.0	.0	.0	.0	2.5	7.7		
SSE	.2	.6	.7	.6	.2	.0	.0	.0	.0	.0	.0	.0	2.3	9.4		
S	.2	1.1	1.7	2.3	.3	.2	.0	.0	.0	.0	.0	.0	5.7	10.5		
SSW	.6	2.1	3.3	2.1	.2	.0	.0	.0	.0	.0	.0	.0	8.2	8.5		
SW	.2	1.9	2.9	1.9	.2	.1	.1	.0	.0	.0	.0	.0	7.1	9.4		
WSW	1.0	1.7	2.5	1.8	.2	.0	.0	.0	.0	.0	.0	.0	7.2	8.5		
W	.4	1.9	2.1	2.1	.4	.2	.0	.0	.0	.0	.0	.0	7.1	9.3		
WNW	.2	1.6	2.2	2.0	.2	.0	.0	.0	.0	.0	.0	.0	6.2	9.4		
NW	.1	1.4	2.5	1.7	.3	.0	.0	.0	.0	.0	.0	.0	6.0	9.7		
NNW	.1	1.0	1.4	2.0	.2	.0	.0	.0	.0	.0	.0	.0	4.6	10.2		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CLM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2	.0		
ALL	8.5	26.4	32.5	24.9	4.3	.9	.2	.0	.0	.0	.0	.0	100.0	8.7		

TOTAL NO. OF OBS : 1259

NOTES : \* = PERCENT < .05



# 1 - SURFACE WINDS

013750 : NORFOLK, VA  
 PERIOD OF RECORD : 1945-1986  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
 MONTH : NOV  
 HOUR : 1900 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

16 PT. DIR.	SPEED (KNOTS)										TOTAL Σ	MEAN WIND SPEED
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55		
N	.3	.6	2.5	2.5	.6	.1	.0	.0	.0	.0	6.7	11.0
NNE	.2	.6	2.1	1.8	.6	.2	.2	.0	.0	.0	5.7	11.7
NE	.6	1.2	1.6	1.6	.4	.2	.0	.0	.0	.0	5.6	9.5
ENE	.3	1.7	.8	.7	.1	.1	.0	.0	.0	.0	3.7	8.0
E	1.5	1.2	.6	.1	.0	.1	.0	.0	.0	.0	3.5	5.1
ESE	1.3	.6	.3	.3	.0	.0	.0	.0	.0	.0	2.9	5.4
SE	1.7	1.7	.8	.4	.2	.0	.0	.0	.0	.0	4.8	5.6
SSE	2.5	3.7	3.7	.7	.1	.0	.0	.0	.0	.0	10.6	6.1
S	1.5	3.4	2.6	1.7	.4	.0	.0	.0	.0	.0	9.6	7.3
SSW	1.7	1.7	3.5	1.3	.2	.1	.0	.0	.0	.0	8.6	7.7
SW	.6	2.0	1.7	.4	.2	.0	.0	.0	.0	.0	4.9	7.1
WSW	.7	.8	.9	.9	.5	.1	.0	.0	.0	.0	3.8	9.6
W	.4	.6	1.0	1.4	.1	.0	.0	.0	.0	.0	3.5	9.6
WNW	.2	1.1	1.3	1.1	.4	.1	.0	.0	.0	.0	4.2	10.0
NW	.4	1.0	1.7	2.0	.2	.1	.0	.0	.0	.0	5.5	9.8
NNW	.3	1.1	1.7	2.5	.5	.2	.1	.0	.0	.0	6.4	11.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10.0	.0
ALL	14.4	23.0	27.4	19.4	4.4	1.1	.2	.0	.0	.0	100.0	7.6

TOTAL NO. OF OBS : 1260

NOTES :  
 \* = PERCENT < .05



# 1 - SURFACE WINDS

013750 : NORFOLK, VA  
 PERIOD OF RECORD : 1945-1986  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
 MONTH : NOV  
 HOUR : 2200 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

DIR.	SPEED (KNOTS)																TOTAL %	MEAN WIND SPEED
	16-21	1	2	3	4	5	6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>=56		
N	.2	.8	2.3	3.3	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.1	11.1
NNE	.2	.5	1.5	2.3	.8	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.4	12.0
NE	.9	.8	1.0	1.7	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.9	9.6
ENE	.7	1.2	1.9	.6	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.5	7.3
E	.5	.8	.6	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.1	6.7
ESE	.8	.4	.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	5.2
SE	.5	1.2	.7	.2	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.8	7.3
SSE	2.5	2.3	2.4	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.7	5.7
S	1.7	3.3	3.5	1.4	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10.3	7.4
SSW	1.0	2.9	3.7	2.8	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10.7	8.5
SW	.6	1.5	2.9	.9	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.9	8.0
WSW	.6	.7	1.2	.4	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.2	8.0
W	.2	1.0	1.3	1.4	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.3	9.8
WNW	.2	.5	1.0	1.7	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.1	11.7
NW	.3	1.0	1.9	1.7	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.4	10.3
NNW	.0	.9	2.1	3.1	1.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.5	12.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12.3	.0
ALL	10.7	19.7	28.1	22.5	5.4	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	7.9

TOTAL NO. OF OBS : 1259

NOTES :  
 \* = PERCENT < .05



# 1 - SURFACE WINDS

013750 : NORFOLK, VA  
 PERIOD OF RECORD : 1945-1986  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
 MONTH : NOV  
 HOUR : ALL

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

16 PT.		1	3	4	6	7-10	11-16	17-21	SPEED (KNOTS)					TOTAL		MEAN
DIR.		1	3	4	6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>=56	%	WIND
																SPEED
N	.5	1.3	2.6	3.1	.8	.1	.0*	.0*	.0	.0	.0	.0	.0	.0	8.4	10.7
NNE	.4	1.3	2.4	2.8	1.0	.4	.1	.0*	.0	.0	.0	.0	.0	.0	8.4	11.7
NE	.5	1.4	1.9	1.2	.4	.1	.0*	.0	.0	.0	.0	.0	.0	.0	5.5	9.1
ENE	.5	1.4	1.5	.6	.1	.0*	.0	.0	.0	.0	.0	.0	.0	.0	4.1	7.4
E	.6	1.1	1.1	.4	.1	.0*	.0	.0	.0	.0	.0	.0	.0	.0	3.2	6.8
ESE	.5	.5	.5	.2	.0*	.0*	.0	.0*	.0	.0	.0	.0	.0	.0	1.8	6.7
SE	.5	.8	.7	.4	.1	.0*	.0	.0	.0	.0	.0	.0	.0	.0	2.5	7.4
SSE	1.1	1.4	1.5	.6	.1	.0*	.0	.0	.0	.0	.0	.0	.0	.0	4.6	6.7
S	.9	2.1	2.3	1.5	.3	.0*	.0	.0	.0	.0	.0	.0	.0	.0	7.2	8.2
SSH	.8	2.2	3.7	2.3	.2	.1	.0*	.0	.0	.0	.0	.0	.0	.0	9.3	8.6
SW	.6	2.2	2.8	1.4	.1	.1	.0*	.0	.0	.0	.0	.0	.0	.0	7.3	8.2
WSW	.7	1.5	2.0	1.5	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	6.0	8.8
W	.5	1.4	2.2	1.8	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	6.4	9.3
WNW	.3	.9	1.8	1.6	.3	.0*	.0	.0	.0	.0	.0	.0	.0	.0	4.9	9.9
NW	.2	1.0	2.0	1.8	.4	.0*	.0	.0	.0	.0	.0	.0	.0	.0	5.5	10.2
NNW	.2	1.1	2.4	2.9	.7	.1	.0*	.0	.0	.0	.0	.0	.0	.0	7.4	10.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.4	.0
ALL	8.8	21.6	31.4	24.0	5.2	1.3	.1	.0*	.0	.0	.0	.0	.0	.0	100.0	8.5

TOTAL NO. OF OBS : 10077

NOTES : PERCENT < .05  
 \* = PERCENT < .05



## 2 - CEILING VS VISIBILITY

013750 : NORFOLK, VA  
PERIOD OF RECORD : 1945-1986  
CLASS : ALL WEATHER  
CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : NOV  
HOUR : 0100 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)									
	>=10	>=6	>=5	>=4	>=3	>=2 1/2	>=2	>=1 1/2	>=1 1/4	>=1
UNLIMIT	8.1	52.1	54.5	55.9	57.7	58.4	58.8	59.1	59.1	59.3
>=20000	8.2	53.4	56.1	57.5	59.3	60.0	60.4	60.7	60.7	60.9
>=18000	8.2	53.4	56.1	57.5	59.3	60.0	60.4	60.7	60.7	60.9
>=16000	8.2	53.4	56.1	57.5	59.3	60.0	60.4	60.7	60.7	60.9
>=14000	8.2	53.6	56.3	57.7	59.5	60.2	60.6	60.9	60.9	61.2
>=12000	8.5	54.6	57.3	58.9	60.6	61.3	61.7	62.1	62.1	62.3
>=10000	9.0	58.3	61.3	62.9	64.7	65.4	65.8	66.2	66.2	66.4
>= 9000	9.0	59.1	62.1	63.7	65.6	66.3	66.7	67.0	67.0	67.3
>= 8000	9.2	63.2	66.5	68.1	70.1	70.9	71.3	71.8	71.8	72.0
>= 7000	9.4	64.9	68.2	69.8	71.8	72.6	73.0	73.5	73.5	73.7
>= 6000	9.5	65.8	69.0	70.7	72.8	73.6	74.0	74.5	74.5	74.7
>= 5000	9.9	67.5	71.1	72.7	74.8	75.6	76.0	76.5	76.5	76.7
>= 4500	9.9	68.5	72.1	73.8	75.9	76.7	77.1	77.5	77.5	77.8
>= 4000	10.1	69.8	73.5	75.3	77.4	78.2	78.6	79.1	79.1	79.3
>= 3500	10.2	71.3	75.1	76.9	79.0	79.8	80.3	80.8	80.8	81.0
>= 3000	10.2	73.2	77.3	79.1	81.2	82.0	82.4	82.9	82.9	83.2
>= 2500	10.3	74.7	79.0	80.8	82.9	83.7	84.2	84.7	84.9	85.0
>= 2000	10.3	76.7	81.2	83.2	85.3	86.1	86.6	87.1	87.3	87.4
>= 1800	10.3	77.1	81.6	83.6	85.7	86.5	87.0	87.5	87.7	87.8
>= 1500	10.4	77.9	82.6	84.5	86.7	87.6	88.1	88.5	88.5	88.8
>= 1200	10.5	78.6	83.4	85.4	87.7	88.6	89.1	89.6	89.6	89.9
>= 1000	10.6	79.5	84.4	86.8	89.3	90.2	90.8	91.3	91.3	91.5
>= 900	10.7	79.7	84.8	87.2	89.7	90.6	91.3	91.7	92.0	92.1
>= 800	10.7	80.4	85.6	88.1	90.9	91.9	92.5	93.0	93.3	93.4
>= 700	10.7	80.8	86.2	88.9	91.7	92.9	93.5	94.0	94.2	94.4
>= 600	10.7	81.1	86.7	89.6	92.5	93.6	94.4	94.9	95.1	95.2
>= 500	10.7	81.2	86.9	89.9	92.9	94.1	94.9	95.3	95.6	95.7
>= 400	10.7	81.3	87.0	90.1	93.4	94.6	95.5	96.3	96.6	96.8
>= 300	10.7	81.3	87.1	90.2	93.6	94.9	96.2	97.0	97.4	97.6
>= 200	10.7	81.3	87.2	90.4	93.7	95.1	96.5	97.4	97.8	98.2
>= 100	10.7	81.3	87.2	90.4	93.7	95.1	96.5	97.4	97.8	98.3
>= 0	10.7	81.3	87.2	90.4	93.7	95.1	96.5	97.4	97.8	98.3

TOTAL NO. OF OBS : 1247



## 2 - CEILING VS VISIBILITY

013750 : NORFOLK, VA  
PERIOD OF RECORD : 1945-1986  
CLASS : ALL WEATHER  
CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : NOV  
HOUR : 0400 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)									
	>=10	>=6	>=5	>=4	>=3	>=2 1/2	>=2	>=1 1/2	>=1	>=3/4
UNLIMIT	7.7	52.9	55.4	57.2	58.2	58.7	59.3	59.5	59.7	59.7
>=20000	7.7	54.2	56.8	58.7	59.7	60.2	60.8	61.0	61.2	61.2
>=18000	7.7	54.2	56.8	58.7	59.7	60.2	60.8	61.0	61.2	61.2
>=16000	7.7	54.2	56.8	58.7	59.7	60.2	60.8	61.0	61.2	61.2
>=14000	7.7	54.6	57.2	59.1	60.2	60.7	61.3	61.5	61.7	61.7
>=12000	7.8	55.1	57.8	59.7	60.8	61.2	61.9	62.0	62.3	62.3
>=10000	8.0	58.1	61.0	62.9	64.0	64.5	65.1	65.3	65.5	65.5
>= 9000	8.0	58.7	61.6	63.5	64.5	65.0	65.7	65.8	66.1	66.1
>= 8000	8.3	61.7	64.9	67.0	68.3	68.8	69.5	69.7	69.9	69.9
>= 7000	8.4	62.9	66.1	68.2	69.5	70.0	70.7	70.9	71.2	71.2
>= 6000	8.5	63.7	66.9	69.0	70.3	70.8	71.6	71.7	72.0	72.0
>= 5000	8.8	65.2	68.7	71.0	72.3	72.8	73.6	73.7	74.0	74.0
>= 4500	8.8	65.7	69.3	71.6	72.9	73.5	74.2	74.4	74.6	74.6
>= 4000	9.2	67.8	71.8	74.2	75.7	76.2	77.0	77.2	77.4	77.4
>= 3500	9.3	69.0	72.9	75.4	76.9	77.4	78.2	78.4	78.6	78.6
>= 3000	9.5	70.7	75.0	77.7	79.1	79.7	80.4	80.7	80.9	80.9
>= 2500	9.5	72.0	76.4	79.0	80.7	81.3	82.0	82.3	82.5	82.5
>= 2000	9.5	73.8	78.2	81.1	82.8	83.5	84.2	84.4	84.7	84.7
>= 1800	9.5	74.1	78.6	81.5	83.2	83.8	84.5	84.8	85.0	85.0
>= 1500	9.6	75.2	80.0	83.2	84.9	85.6	86.3	86.6	86.9	86.9
>= 1200	9.6	76.1	81.0	84.4	86.1	86.7	87.4	87.8	88.0	88.0
>= 1000	9.7	76.8	82.0	85.7	87.4	88.1	88.8	89.1	89.4	89.4
>= 900	9.7	77.0	82.1	85.9	87.7	88.3	89.0	89.4	89.6	89.6
>= 800	9.8	77.6	83.0	87.0	88.8	89.4	90.2	90.6	90.8	90.8
>= 700	9.8	77.9	83.6	88.0	90.1	90.7	91.6	91.9	92.2	92.2
>= 600	9.8	78.2	84.0	88.5	90.6	91.3	92.3	92.6	92.8	92.8
>= 500	9.8	78.6	84.6	89.1	91.5	92.3	93.5	93.9	94.2	94.2
>= 400	9.8	78.6	84.8	89.4	92.0	92.8	94.4	95.0	95.3	95.3
>= 300	9.8	78.7	84.9	89.8	92.3	93.2	94.9	95.6	96.0	96.1
>= 200	9.8	78.7	84.9	89.8	92.6	93.6	95.5	96.3	96.7	96.9
>= 100	9.8	78.7	84.9	89.8	92.6	93.6	95.5	96.3	96.8	97.0
>= 0	9.8	78.7	84.9	89.8	92.6	93.6	95.5	96.3	96.8	97.0

TOTAL NO. OF OBS : 1241



013750 : NORFOLK, VA  
 PERIOD OF RECORD : 1945-1986  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
 MONTH : NOV  
 HOUR : 0700 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)									
	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=1	>=3/4	>=5/8
UNLIMIT	5.0	39.7	44.1	47.4	50.1	50.8	51.9	52.5	52.8	53.3
>=20000	5.3	42.0	46.6	49.9	52.6	53.3	54.7	55.5	55.7	56.2
>=18000	5.3	42.0	46.6	49.9	52.6	53.3	54.7	55.5	55.7	56.2
>=16000	5.3	42.0	46.6	49.9	52.6	53.3	54.7	55.5	55.7	56.2
>=14000	5.4	42.3	47.0	50.4	53.2	53.8	55.3	56.0	56.3	56.8
>=12000	5.7	43.4	48.3	52.1	54.8	55.5	56.9	57.6	57.9	58.4
>=10000	6.1	46.5	51.7	55.6	58.6	59.5	61.0	61.8	62.1	62.6
>= 9000	6.1	46.7	52.0	56.0	59.0	59.9	61.4	62.2	62.5	63.0
>= 8000	6.3	50.3	55.9	60.6	63.8	64.8	66.3	67.2	67.5	68.0
>= 7000	6.3	51.0	56.8	61.6	65.0	66.0	67.6	68.5	68.8	69.3
>= 6000	6.4	51.7	57.6	62.5	65.9	66.9	68.5	69.4	69.7	70.2
>= 5000	6.6	53.1	59.2	64.2	67.7	68.9	70.4	71.3	71.6	72.1
>= 4500	6.6	53.7	59.8	64.9	68.5	69.6	71.1	72.0	72.4	72.8
>= 4000	6.8	55.5	62.0	67.2	70.9	72.1	73.6	74.5	74.9	75.3
>= 3500	6.9	56.3	62.9	68.1	71.9	73.1	74.6	75.5	75.8	76.3
>= 3000	7.1	58.1	65.1	70.4	74.3	75.7	77.3	78.2	78.5	79.0
>= 2500	7.1	59.3	66.5	71.8	75.9	77.3	78.9	79.8	80.1	80.6
>= 2000	7.1	61.0	68.2	73.6	77.9	79.3	81.1	82.0	82.3	82.8
>= 1800	7.1	61.7	69.1	74.5	78.9	80.3	82.1	82.9	83.3	83.8
>= 1500	7.1	62.7	70.3	76.0	80.4	81.8	83.7	84.7	85.0	85.6
>= 1200	7.3	63.3	71.1	76.9	81.4	82.8	84.6	85.7	86.0	86.6
>= 1000	7.3	63.5	71.2	77.4	82.1	83.5	85.4	86.4	86.7	87.3
>= 900	7.3	63.8	71.7	77.8	82.5	84.0	85.9	86.9	87.2	87.8
>= 800	7.4	64.4	72.6	78.9	83.8	85.3	87.2	88.3	88.6	89.2
>= 700	7.4	65.1	73.5	80.1	85.5	87.2	89.2	90.3	90.6	91.4
>= 600	7.4	65.1	73.6	80.4	86.0	87.7	89.8	90.9	91.2	91.9
>= 500	7.4	65.2	74.0	80.9	86.8	88.7	91.2	92.3	92.6	93.5
>= 400	7.4	65.2	74.0	81.0	86.9	88.9	91.5	92.7	93.1	94.1
>= 300	7.4	65.2	74.0	81.0	87.1	89.2	92.2	93.5	93.9	95.1
>= 200	7.4	65.2	74.0	81.0	87.2	89.5	92.5	94.0	94.4	95.6
>= 100	7.4	65.2	74.0	81.0	87.2	89.5	92.5	94.0	94.4	95.6
>= 0	7.4	65.2	74.0	81.0	87.2	89.5	92.5	94.0	94.4	95.6

TOTAL NO. OF OBS : 1237



## 2 - CEILING VS VISIBILITY

013750 : NORFOLK, VA  
 PERIOD OF RECORD : 1945-1986  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
 MONTH : NOV  
 HOUR : 1000 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)															
	>=10	>=6	>=5	>=4	>=3	>=2 1/2	>=2	>=1 1/2	>=1 1/4	>=1	>=3/4	>=5/8	>=1/2	>=5/16	>=1/4	>=0
UNLIMIT	7.2	47.5	52.1	54.2	55.5	55.7	56.1	56.2	56.2	56.3	56.3	56.3	56.6	56.6	56.6	56.7
>=20000	7.8	49.9	54.5	56.6	58.1	58.3	58.7	58.8	58.8	58.9	58.9	58.9	59.2	59.2	59.2	59.3
>=18000	7.9	50.0	54.6	56.7	58.3	58.5	58.8	59.0	59.0	59.1	59.1	59.1	59.3	59.4	59.4	59.5
>=16000	8.0	50.1	54.8	57.0	58.5	58.7	59.1	59.2	59.2	59.3	59.3	59.3	59.6	59.6	59.6	59.7
>=14000	8.1	50.6	55.3	57.5	59.1	59.3	59.6	59.8	59.8	59.9	59.9	59.9	60.1	60.2	60.2	60.3
>=12000	8.3	51.8	56.6	58.8	60.5	60.8	61.1	61.3	61.3	61.4	61.4	61.4	61.6	61.7	61.7	61.8
>=10000	8.5	54.8	60.0	62.4	64.2	64.5	64.8	65.0	65.0	65.1	65.1	65.1	65.3	65.4	65.4	65.5
>= 9000	8.6	55.2	60.5	63.0	64.8	65.1	65.4	65.6	65.6	65.7	65.7	65.7	65.9	66.0	66.0	66.1
>= 8000	9.0	59.0	64.8	67.5	69.2	69.7	70.1	70.3	70.3	70.4	70.4	70.4	70.6	70.7	70.7	70.8
>= 7000	9.0	59.9	65.9	68.8	70.7	71.2	71.7	71.8	71.8	71.9	71.9	71.9	72.2	72.3	72.3	72.3
>= 6000	9.0	60.8	66.9	69.9	71.9	72.4	72.9	73.1	73.1	73.1	73.1	73.1	73.4	73.5	73.5	73.6
>= 5000	9.0	61.5	67.7	70.8	72.9	73.4	73.9	74.0	74.0	74.1	74.1	74.1	74.4	74.5	74.5	74.5
>= 4500	9.1	62.2	68.3	71.4	73.6	74.1	74.6	74.8	74.8	74.9	74.9	74.9	75.1	75.2	75.2	75.3
>= 4000	9.3	63.5	69.9	73.2	75.5	76.0	76.5	76.6	76.6	76.7	76.7	76.7	77.0	77.1	77.1	77.1
>= 3500	9.3	64.2	70.5	74.0	76.3	76.8	77.3	77.5	77.5	77.6	77.6	77.6	77.9	77.9	77.9	78.0
>= 3000	9.6	66.1	72.9	76.3	78.8	79.4	80.0	80.2	80.2	80.3	80.3	80.3	80.6	80.6	80.6	80.7
>= 2500	9.8	67.7	74.7	78.4	81.0	81.7	82.3	82.6	82.6	82.7	82.7	82.7	82.9	83.0	83.0	83.1
>= 2000	9.8	68.9	76.2	80.5	83.2	83.8	84.5	84.9	84.9	84.9	84.9	84.9	85.2	85.3	85.3	85.4
>= 1800	9.9	69.1	76.5	80.8	83.5	84.1	84.9	85.2	85.2	85.3	85.3	85.3	85.5	85.6	85.6	85.7
>= 1500	9.9	69.9	77.8	82.3	85.0	85.8	86.7	87.1	87.1	87.2	87.2	87.2	87.5	87.6	87.6	87.6
>= 1200	10.0	70.2	78.5	83.0	85.8	86.7	87.6	88.0	88.0	88.1	88.1	88.1	88.4	88.4	88.4	88.5
>= 1000	10.0	70.9	79.6	84.1	87.2	88.3	89.3	89.7	89.7	89.9	89.9	89.9	90.2	90.2	90.2	90.3
>= 900	10.0	71.1	79.9	84.6	88.0	89.1	90.3	90.7	90.7	90.9	90.9	90.9	91.1	91.2	91.2	91.3
>= 800	10.0	71.4	80.3	85.4	89.1	90.4	91.9	92.3	92.3	92.4	92.4	92.4	92.7	92.8	92.8	92.8
>= 700	10.0	71.8	81.1	86.4	90.2	91.5	93.1	93.5	93.5	93.7	93.7	93.7	94.0	94.1	94.1	94.1
>= 600	10.0	71.9	81.4	86.9	90.7	92.2	94.1	94.5	94.5	94.7	94.7	94.7	95.0	95.0	95.0	95.1
>= 500	10.0	72.1	81.7	87.4	91.6	93.3	95.5	96.1	96.2	96.7	96.7	96.7	97.0	97.1	97.1	97.2
>= 400	10.0	72.1	81.7	87.4	91.7	93.5	95.9	96.8	96.9	97.6	97.6	97.6	98.1	98.2	98.2	98.3
>= 300	10.0	72.1	81.7	87.4	91.8	93.6	96.0	96.9	97.0	97.7	97.7	97.7	98.0	98.5	98.6	98.7
>= 200	10.0	72.1	81.7	87.4	91.8	93.6	96.0	97.1	97.2	97.9	97.9	97.9	99.0	99.1	99.3	99.4
>= 100	10.0	72.1	81.7	87.4	91.8	93.6	96.0	97.1	97.2	97.9	97.9	97.9	99.1	99.3	99.6	99.8
>= 0	10.0	72.1	81.7	87.4	91.8	93.6	96.0	97.1	97.2	97.9	97.9	97.9	99.1	99.3	99.6	100.0

TOTAL NO. OF OBS : 1229



## 2 - CEILING VS VISIBILITY

013750 : NORFOLK, VA  
PERIOD OF RECORD : 1945-1986  
CLASS : ALL WEATHER  
CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : NOV  
HOUR : 1300 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

## VISIBILITY (STATUTE MILES)

CEILING	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=1	1/2	>=1	>=3/4	>=5/8	>=1/2	>=5/16	>=1/4	>=0
UNLIMIT	10.8	50.4	52.6	53.4	54.0	54.3	54.4	54.4	54.4	54.4	54.5	54.5	54.5	54.5	54.5	54.5
>=20000	11.8	54.7	56.9	57.7	58.4	58.6	58.8	58.8	58.8	58.9	58.9	58.9	58.9	58.9	58.9	58.9
>=18000	11.8	54.7	56.9	57.7	58.4	58.6	58.8	58.8	58.8	58.9	58.9	58.9	58.9	58.9	58.9	58.9
>=16000	11.8	54.9	57.1	57.9	58.5	58.8	58.9	58.9	58.9	59.0	59.1	59.1	59.1	59.1	59.1	59.1
>=14000	12.0	55.1	57.5	58.3	58.9	59.2	59.3	59.3	59.3	59.4	59.5	59.5	59.5	59.5	59.5	59.5
>=12000	12.5	56.7	59.0	59.8	60.5	60.7	60.9	60.9	60.9	61.0	61.1	61.1	61.1	61.1	61.1	61.1
>=10000	13.1	60.5	63.5	64.4	65.1	65.4	65.6	65.6	65.6	65.6	65.7	65.7	65.7	65.7	65.7	65.7
>= 9000	13.1	61.0	64.0	64.9	65.6	65.9	66.0	66.0	66.0	66.1	66.2	66.2	66.2	66.2	66.2	66.2
>= 8000	13.4	65.6	68.9	70.0	70.7	71.1	71.3	71.3	71.3	71.3	71.4	71.4	71.4	71.4	71.4	71.4
>= 7000	13.5	66.3	69.8	71.0	71.8	72.2	72.4	72.4	72.4	72.5	72.6	72.6	72.6	72.6	72.7	72.7
>= 6000	13.6	66.9	70.5	71.8	72.6	73.0	73.1	73.1	73.1	73.2	73.3	73.3	73.3	73.3	73.4	73.4
>= 5000	13.9	68.3	72.0	73.2	74.0	74.4	74.6	74.6	74.6	74.7	74.8	74.8	74.8	74.8	74.9	74.9
>= 4500	13.9	69.0	72.8	74.0	74.9	75.3	75.4	75.4	75.4	75.5	75.6	75.6	75.6	75.6	75.7	75.7
>= 4000	14.4	71.2	75.1	76.4	77.3	77.9	78.0	78.0	78.0	78.1	78.2	78.2	78.2	78.2	78.3	78.3
>= 3500	14.8	72.3	76.3	77.7	78.7	79.3	79.4	79.4	79.4	79.5	79.6	79.6	79.6	79.6	79.7	79.7
>= 3000	15.2	75.2	79.4	81.0	82.1	82.8	82.9	82.9	82.9	83.0	83.1	83.1	83.1	83.1	83.2	83.2
>= 2500	15.3	76.9	81.3	82.9	84.1	84.7	85.0	85.0	85.0	85.1	85.1	85.1	85.1	85.1	85.2	85.2
>= 2000	15.5	78.9	83.4	85.1	86.4	87.1	87.5	87.5	87.5	87.6	87.7	87.7	87.7	87.7	87.8	87.8
>= 1800	15.6	79.0	83.6	85.3	86.6	87.3	87.7	87.7	87.7	87.8	87.8	87.8	87.8	87.8	87.9	87.9
>= 1500	15.7	80.1	84.9	86.9	88.2	88.8	89.2	89.3	89.3	89.5	89.6	89.6	89.6	89.6	89.6	89.6
>= 1200	15.7	80.8	86.1	88.1	89.5	90.1	90.6	90.8	90.8	90.9	91.0	91.0	91.0	91.0	91.1	91.1
>= 1000	15.7	81.4	86.9	89.2	90.9	91.6	92.2	92.3	92.3	92.5	92.6	92.6	92.6	92.6	92.7	92.7
>= 900	15.7	81.6	87.1	89.4	91.2	91.9	92.7	92.9	92.9	93.1	93.1	93.1	93.1	93.1	93.2	93.2
>= 800	15.7	81.6	87.2	89.7	91.8	92.7	93.6	93.9	93.9	94.0	94.1	94.1	94.1	94.1	94.2	94.2
>= 700	15.7	81.7	87.7	90.4	92.7	93.6	94.8	95.1	95.2	95.4	95.5	95.5	95.5	95.5	95.6	95.6
>= 600	15.7	81.8	87.8	90.8	93.4	94.4	95.8	96.2	96.2	96.6	96.7	96.7	96.7	96.7	96.8	96.8
>= 500	15.7	81.8	87.8	90.9	93.7	94.9	96.7	97.1	97.2	97.6	97.8	97.8	97.8	97.8	97.9	97.9
>= 400	15.7	81.8	87.8	90.9	93.9	95.2	97.2	97.7	97.9	98.4	98.6	98.6	98.6	98.6	98.7	98.7
>= 300	15.7	81.8	87.8	90.9	93.9	95.3	97.3	98.0	98.3	98.9	99.3	99.3	99.3	99.3	99.4	99.4
>= 200	15.7	81.8	87.8	90.9	93.9	95.3	97.3	98.0	98.4	99.1	99.5	99.5	99.5	99.5	99.9	99.9
>= 100	15.7	81.8	87.8	90.9	93.9	95.3	97.3	98.0	98.4	99.1	99.5	99.5	99.5	99.5	99.9	100.0
>= 0	15.7	81.8	87.8	90.9	93.9	95.3	97.3	98.0	98.4	99.1	99.5	99.5	99.5	99.5	99.9	100.0

TOTAL NO. OF OBS : 1225



## 2 - CEILING VS VISIBILITY

013750 : NORFOLK, VA  
PERIOD OF RECORD : 1945-1986  
CLASS : ALL WEATHER  
CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : NOV  
HOUR : 1600 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)									
	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=1	1/2	>=1
UNLIMIT	11.0	51.1	52.4	53.0	53.4	53.4	53.7	53.7	53.7	53.7
>=20000	11.7	55.3	56.7	57.4	57.7	57.8	58.0	58.0	58.0	58.0
>=18000	11.7	55.4	56.9	57.6	57.9	58.0	58.2	58.2	58.2	58.2
>=16000	11.7	55.8	57.3	58.0	58.3	58.4	58.6	58.6	58.6	58.6
>=14000	12.0	56.8	58.5	59.1	59.4	59.5	59.8	59.8	59.8	59.8
>=12000	12.3	58.6	60.4	61.2	61.6	61.7	61.9	61.9	62.1	62.1
>=10000	12.7	62.1	64.1	65.2	65.5	65.6	65.8	65.8	66.0	66.0
>=9000	12.9	62.6	64.8	65.8	66.2	66.3	66.4	66.5	66.7	66.7
>=8000	13.1	67.6	70.0	71.0	71.4	71.5	71.8	71.8	72.0	72.0
>=7000	13.2	68.3	70.9	72.0	72.4	72.5	72.7	72.8	73.0	73.0
>=6000	13.4	69.0	71.6	72.7	73.2	73.3	73.6	73.6	73.8	73.8
>=5000	13.7	70.2	72.7	73.9	74.3	74.5	74.8	74.8	75.0	75.0
>=4500	13.9	70.9	73.6	74.7	75.1	75.3	75.6	75.6	75.8	75.8
>=4000	14.6	73.4	76.2	77.4	77.9	78.1	78.5	78.5	78.7	78.7
>=3500	14.8	74.1	77.1	78.5	79.1	79.2	79.6	79.6	79.8	79.8
>=3000	15.1	76.9	80.0	81.8	82.3	82.5	83.0	83.1	83.3	83.3
>=2500	15.1	78.5	81.9	83.6	84.2	84.4	85.0	85.1	85.2	85.2
>=2000	15.3	80.6	84.3	86.0	86.8	87.1	87.8	87.9	88.1	88.1
>=1800	15.3	80.9	84.7	86.6	87.4	87.7	88.3	88.5	88.7	88.7
>=1500	15.4	81.5	85.9	87.8	88.7	89.0	89.8	90.0	90.1	90.1
>=1200	15.4	81.8	86.4	88.8	89.6	90.0	90.8	91.0	91.1	91.1
>=1000	15.4	82.3	87.1	89.7	90.8	91.3	92.3	92.5	92.7	92.7
>=900	15.4	82.5	87.4	90.2	91.5	92.0	93.1	93.3	93.6	93.6
>=800	15.4	82.8	87.8	90.6	92.1	92.7	93.8	94.0	94.6	94.6
>=700	15.4	82.9	87.9	91.1	92.8	93.4	94.8	95.2	95.7	95.7
>=600	15.4	83.0	88.1	91.2	92.9	93.8	95.5	96.1	96.7	96.7
>=500	15.4	83.1	88.2	91.4	93.4	94.5	96.5	97.1	97.8	98.2
>=400	15.4	83.3	88.4	91.7	93.8	95.0	97.0	97.8	98.9	99.1
>=300	15.4	83.3	88.4	91.7	93.9	95.1	97.0	98.1	99.4	99.8
>=200	15.4	83.3	88.4	91.7	93.9	95.1	97.0	98.1	99.4	99.9
>=100	15.4	83.3	88.4	91.7	93.9	95.1	97.0	98.1	99.4	99.9
>=0	15.4	83.3	88.4	91.7	93.9	95.1	97.0	98.1	99.4	100.0

TOTAL NO. OF OBS : 1218



## 2 - CEILING VS VISIBILITY

013750 : NORFOLK, VA  
PERIOD OF RECORD : 1945-1986  
CLASS : ALL WEATHER  
CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : NOV  
HOUR : 1900 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)									
	>=10	>=6	>=5	>=4	>=3	>=2 1/2	>=2	>=1 1/2	>=1 1/4	>=1
UNLIMIT	8.5	55.7	57.7	59.0	60.2	60.3	60.5	60.6	60.6	60.6
>=20000	8.8	58.0	60.0	61.5	62.7	62.7	62.9	63.1	63.1	63.1
>=18000	8.8	58.1	60.2	61.6	62.8	62.9	63.1	63.2	63.2	63.2
>=16000	8.9	58.3	60.4	61.9	63.1	63.1	63.3	63.5	63.5	63.5
>=14000	9.0	58.8	60.9	62.3	63.5	63.6	63.8	64.0	64.0	64.0
>=12000	9.2	59.7	61.9	63.4	64.6	64.7	64.8	65.0	65.0	65.1
>=10000	9.4	63.4	66.1	67.7	69.0	69.0	69.2	69.4	69.4	69.4
>= 9000	9.4	63.7	66.5	68.1	69.3	69.4	69.5	69.7	69.7	69.7
>= 8000	9.7	68.3	71.3	73.1	74.4	74.6	74.8	75.0	75.0	75.1
>= 7000	9.9	68.9	71.9	73.7	75.1	75.2	75.5	75.6	75.6	75.7
>= 6000	10.1	69.5	72.6	74.4	75.8	76.0	76.2	76.4	76.4	76.5
>= 5000	10.2	71.2	74.4	76.4	77.8	78.0	78.2	78.4	78.4	78.5
>= 4500	10.2	71.6	74.8	76.8	78.2	78.4	78.6	78.8	78.8	78.9
>= 4000	10.6	73.8	77.2	79.2	80.6	80.8	81.0	81.2	81.2	81.3
>= 3500	10.9	75.0	78.4	80.4	81.9	82.0	82.3	82.4	82.4	82.5
>= 3000	11.0	76.8	80.5	82.6	84.2	84.4	84.6	84.8	84.8	84.8
>= 2500	11.0	78.2	82.3	84.4	86.1	86.4	86.7	86.9	86.9	87.0
>= 2000	11.1	79.5	84.0	86.3	88.1	88.4	88.8	89.0	89.0	89.1
>= 1800	11.1	79.8	84.3	86.7	88.5	88.9	89.3	89.4	89.4	89.5
>= 1500	11.1	80.6	85.5	88.1	90.1	90.4	90.9	91.0	91.0	91.1
>= 1200	11.1	81.4	86.7	89.4	91.5	91.9	92.3	92.5	92.5	92.6
>= 1000	11.1	81.8	87.4	90.3	92.4	92.7	93.3	93.5	93.5	93.5
>= 900	11.1	82.3	88.1	91.0	93.1	93.4	94.0	94.2	94.2	94.3
>= 800	11.1	82.4	88.2	91.7	93.9	94.2	94.8	95.0	95.0	95.1
>= 700	11.1	82.8	88.7	92.3	94.8	95.1	95.7	95.9	95.9	96.0
>= 600	11.1	83.0	89.0	92.6	95.2	95.6	96.4	96.5	96.5	96.6
>= 500	11.1	83.2	89.2	93.0	95.8	96.3	97.2	97.4	97.4	97.5
>= 400	11.2	83.3	89.3	93.1	96.0	96.6	97.9	98.2	98.2	98.3
>= 300	11.2	83.3	89.3	93.1	96.1	96.9	98.4	98.8	98.9	99.0
>= 200	11.2	83.3	89.3	93.1	96.1	96.9	98.5	98.9	99.0	99.3
>= 100	11.2	83.3	89.3	93.1	96.1	96.9	98.5	98.9	99.0	99.3
>= 0	11.2	83.3	89.3	93.1	96.1	96.9	98.5	98.9	99.0	99.4

TOTAL NO. OF OBS : 1240



## 2 - CEILING VS VISIBILITY

013750 : NORFOLK, VA  
PERIOD OF RECORD : 1945-1986  
CLASS : ALL WEATHER  
CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : NOV  
HOUR : 2200 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

## VISIBILITY (STATUTE MILES)

CEILING	>=10	>=6	>=5	>=4	>=3	>=2 1/2	>=2	>=1 1/2	>=1	>=3/4	>=5/8	>=1/2	>=5/16	>=1/4	>=0
UNLIMIT	8.8	52.2	55.4	57.1	58.6	58.7	59.1	59.3	59.3	59.5	59.5	59.6	59.6	59.6	59.6
>=20000	8.8	54.6	57.9	59.6	61.2	61.3	61.9	62.0	62.0	62.2	62.2	62.3	62.3	62.3	62.3
>=18000	8.8	54.7	58.0	59.7	61.3	61.4	62.0	62.1	62.1	62.3	62.3	62.4	62.4	62.4	62.4
>=16000	8.8	54.7	58.0	59.7	61.3	61.4	62.0	62.1	62.1	62.3	62.3	62.4	62.4	62.4	62.4
>=14000	8.8	55.1	58.5	60.3	61.9	62.0	62.5	62.7	62.7	62.8	62.8	62.9	62.9	62.9	62.9
>=12000	9.4	56.8	60.3	62.0	63.6	63.7	64.3	64.4	64.4	64.6	64.6	64.7	64.7	64.7	64.7
>=10000	9.8	60.6	64.3	66.1	67.7	67.7	68.3	68.5	68.5	68.6	68.6	68.7	68.7	68.7	68.7
>=9000	9.8	61.1	64.8	66.6	68.2	68.3	68.9	69.0	69.0	69.2	69.2	69.3	69.3	69.3	69.3
>=8000	10.0	65.5	69.3	71.3	73.0	73.1	73.7	73.8	73.8	74.0	74.0	74.1	74.1	74.1	74.1
>=7000	10.3	66.3	70.2	72.2	74.0	74.1	74.6	74.8	74.8	75.0	75.0	75.0	75.0	75.0	75.0
>=6000	10.4	66.8	70.8	72.8	74.6	74.7	75.3	75.4	75.4	75.6	75.6	75.7	75.7	75.7	75.7
>=5000	10.5	68.1	72.2	74.2	76.1	76.2	76.7	76.9	76.9	77.0	77.0	77.1	77.1	77.1	77.1
>=4500	10.5	69.0	73.2	75.2	77.0	77.1	77.7	77.8	77.8	78.2	78.2	78.3	78.3	78.3	78.3
>=4000	11.0	71.0	75.4	77.5	79.4	79.5	80.0	80.2	80.3	80.5	80.5	80.6	80.6	80.6	80.6
>=3500	11.2	72.5	77.0	79.2	81.1	81.2	81.8	81.9	82.1	82.3	82.3	82.3	82.3	82.3	82.3
>=3000	11.2	74.3	79.1	81.3	83.2	83.3	83.9	84.0	84.2	84.3	84.3	84.4	84.4	84.4	84.4
>=2500	11.4	75.7	80.7	83.1	85.1	85.2	85.7	85.9	86.0	86.2	86.2	86.3	86.3	86.3	86.3
>=2000	11.4	77.0	82.1	84.7	86.7	86.8	87.4	87.6	87.7	87.9	87.9	88.0	88.0	88.0	88.0
>=1800	11.4	77.4	82.5	85.1	87.2	87.3	87.9	88.0	88.2	88.4	88.4	88.5	88.5	88.5	88.5
>=1500	11.6	78.1	83.3	86.0	88.2	88.4	88.9	89.1	89.2	89.4	89.4	89.6	89.6	89.6	89.6
>=1200	11.6	78.8	84.3	87.0	89.2	89.4	90.0	90.2	90.4	90.5	90.5	90.7	90.7	90.7	90.7
>=1000	11.6	79.7	85.4	88.2	90.8	91.1	91.7	91.9	92.1	92.2	92.2	92.4	92.4	92.4	92.4
>=900	11.6	80.0	86.0	89.0	91.6	91.9	92.5	92.7	92.9	93.0	93.0	93.2	93.2	93.2	93.2
>=800	11.6	80.4	86.4	89.6	92.4	92.8	93.6	93.7	93.9	94.1	94.1	94.2	94.2	94.2	94.2
>=700	11.6	80.9	87.2	90.4	93.5	93.9	94.7	94.9	95.0	95.2	95.2	95.3	95.3	95.3	95.3
>=600	11.6	81.3	87.6	90.9	94.0	94.4	95.3	95.5	95.7	95.8	95.8	96.0	96.0	96.0	96.0
>=500	11.6	81.7	88.3	91.8	95.0	95.5	96.5	96.7	97.0	97.1	97.1	97.3	97.3	97.3	97.3
>=400	11.6	81.8	88.4	92.0	95.3	95.7	97.1	97.4	97.6	97.8	97.8	98.0	98.0	98.0	98.0
>=300	11.6	81.8	88.5	92.1	95.7	96.1	97.8	98.2	98.6	99.0	99.0	99.1	99.1	99.1	99.1
>=200	11.6	81.8	88.5	92.1	95.7	96.1	97.8	98.3	98.8	99.2	99.2	99.4	99.4	99.4	99.4
>=100	11.6	81.8	88.5	92.1	95.7	96.1	97.8	98.3	98.8	99.2	99.2	99.4	99.4	99.4	99.4
>=0	11.6	81.8	88.5	92.1	95.7	96.1	97.8	98.3	98.8	99.2	99.2	99.4	99.4	99.6	100.0

TOTAL NO. OF OBS : 1246



## 2 - CEILING VS VISIBILITY

013750 : NORFOLK, VA  
PERIOD OF RECORD : 1945-1986  
CLASS : ALL WEATHER  
CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : NOV  
HOUR : ALL

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)										>=1/4	>=5/8	>=1/2	>=5/16	>=1/4	>=0
	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=1	1/2	>=1						
UNLIMIT	8.4	50.2	53.0	54.7	56.0	56.3	56.7	56.9	57.0	57.1	57.2	57.2	57.3	57.3	57.4	57.5
>=20000	8.7	52.7	55.7	57.4	58.7	59.0	59.5	59.7	59.8	59.9	60.0	60.0	60.1	60.2	60.2	60.3
>=18000	8.8	52.8	55.8	57.4	58.8	59.1	59.6	59.8	59.9	60.0	60.1	60.1	60.2	60.2	60.3	60.4
>=16000	8.8	52.9	55.9	57.6	58.9	59.2	59.7	60.0	60.1	60.2	60.2	60.2	60.3	60.4	60.4	60.5
>=14000	8.9	53.4	56.4	58.1	59.5	59.8	60.3	60.5	60.5	60.7	60.8	60.8	60.9	60.9	60.9	61.1
>=12000	9.2	54.6	57.7	59.5	60.9	61.2	61.7	61.9	61.9	62.1	62.2	62.2	62.3	62.3	62.3	62.5
>=10000	9.6	58.0	61.5	63.4	64.8	65.2	65.7	65.9	66.0	66.1	66.2	66.2	66.3	66.3	66.4	66.5
>= 9000	9.6	58.5	62.0	63.9	65.4	65.8	66.3	66.5	66.5	66.7	66.8	66.8	66.9	66.9	66.9	67.1
>= 8000	9.9	62.6	66.5	68.6	70.1	70.6	71.1	71.4	71.4	71.5	71.6	71.6	71.7	71.8	71.8	72.0
>= 7000	10.0	63.5	67.5	69.7	71.3	71.7	72.3	72.5	72.6	72.7	72.8	72.8	72.9	73.0	73.0	73.2
>= 6000	10.1	64.3	68.2	70.5	72.1	72.6	73.1	73.4	73.4	73.6	73.7	73.7	73.8	73.8	73.9	74.0
>= 5000	10.3	65.6	69.7	72.1	73.8	74.2	74.8	75.0	75.1	75.2	75.3	75.3	75.4	75.5	75.5	75.7
>= 4500	10.3	66.3	70.5	72.8	74.5	75.0	75.5	75.8	75.8	76.0	76.1	76.1	76.2	76.3	76.3	76.4
>= 4000	10.7	68.3	72.6	75.1	76.8	77.3	77.9	78.2	78.2	78.4	78.5	78.5	78.6	78.6	78.7	78.8
>= 3500	10.9	69.3	73.8	76.3	78.1	78.6	79.2	79.5	79.5	79.7	79.7	79.8	79.9	79.9	79.9	80.1
>= 3000	11.1	71.4	76.2	78.8	80.7	81.2	81.8	82.1	82.1	82.3	82.4	82.4	82.5	82.6	82.6	82.8
>= 2500	11.2	72.9	77.8	80.5	82.5	83.1	83.7	84.0	84.0	84.2	84.3	84.3	84.4	84.5	84.5	84.7
>= 2000	11.3	74.6	79.7	82.6	84.7	85.3	86.0	86.3	86.3	86.5	86.6	86.6	86.7	86.8	86.8	87.0
>= 1800	11.3	74.9	80.1	83.0	85.1	85.7	86.4	86.7	86.8	87.0	87.1	87.1	87.2	87.2	87.3	87.4
>= 1500	11.3	75.7	81.3	84.3	86.5	87.2	87.9	88.3	88.3	88.5	88.6	88.6	88.8	88.8	88.8	89.0
>= 1200	11.4	76.4	82.2	85.4	87.6	88.3	89.1	89.4	89.4	89.7	89.8	89.8	89.9	89.9	90.0	90.1
>= 1000	11.4	77.0	83.0	86.4	88.9	89.6	90.4	90.8	90.9	91.1	91.2	91.2	91.3	91.4	91.4	91.6
>= 900	11.4	77.2	83.4	86.9	89.4	90.2	91.1	91.4	91.5	91.7	91.8	91.8	92.0	92.0	92.0	92.2
>= 800	11.4	77.6	83.9	87.6	90.3	91.2	92.2	92.6	92.6	92.9	93.0	93.0	93.1	93.2	93.2	93.4
>= 700	11.4	78.0	84.5	88.4	91.4	92.3	93.4	93.8	93.9	94.2	94.3	94.3	94.4	94.5	94.5	94.7
>= 600	11.4	78.2	84.8	88.9	91.9	92.9	94.2	94.6	94.7	95.0	95.1	95.1	95.2	95.3	95.3	95.5
>= 500	11.4	78.4	85.1	89.3	92.6	93.7	95.2	95.7	95.8	96.2	96.4	96.4	96.5	96.6	96.6	96.8
>= 400	11.4	78.4	85.2	89.4	92.9	94.1	95.8	96.5	96.6	97.0	97.3	97.3	97.4	97.5	97.5	97.7
>= 300	11.4	78.4	85.2	89.5	93.1	94.3	96.2	97.0	97.1	97.7	98.0	98.1	98.2	98.3	98.4	98.6
>= 200	11.4	78.4	85.2	89.6	93.1	94.4	96.4	97.3	97.4	98.0	98.4	98.4	98.7	98.8	98.9	99.1
>= 100	11.4	78.4	85.2	89.6	93.1	94.4	96.4	97.3	97.4	98.0	98.4	98.5	98.8	98.9	99.1	99.4
>= 0	11.4	78.4	85.2	89.6	93.1	94.4	96.4	97.3	97.4	98.0	98.4	98.5	98.8	98.9	99.2	100.0

TOTAL NO. OF OBS : 9883



# 1 - SURFACE WINDS

013750 : NORFOLK, VA  
 PERIOD OF RECORD : 1945-1986  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
 MONTH : DEC  
 HOUR : 0100 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

16 PT.		SPEED (KNOTS)																TOTAL	MEAN
DIR.		1	3	4	6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>=56	%	WIND	SPEED		
N		.3	1.1			2.5	3.8	.8	.1	.0	.0	.0	.0	.0	8.4	11.2			
NNE		.6	1.2			1.7	2.4	.8	.2	.0	.0	.0	.0	.0	6.9	10.5			
NE		.5	1.2			2.2	.9	.3	.1	.1	.0	.0	.0	.0	5.3	8.8			
ENE		.3	1.1			.5	.5	.1	.0	.0	.0	.0	.0	.0	2.5	7.3			
E		.5	.5			.3	.3	.1	.0	.0	.0	.0	.0	.0	1.7	7.0			
ESE		.6	.4			.5	.0	.0	.0	.0	.0	.0	.0	.0	1.5	5.1			
SE		.5	.5			.2	.1	.0	.0	.0	.0	.0	.0	.0	1.3	5.1			
SSE		.8	.9			.5	.3	.2	.0	.0	.0	.0	.0	.0	2.7	6.7			
S		.9	1.5			2.8	1.2	.2	.0	.0	.0	.0	.0	.0	6.5	7.9			
SSW		.9	2.6			5.1	2.9	.1	.2	.0	.0	.0	.0	.0	11.8	8.6			
SW	1.0		2.4			3.1	1.5	.2	.0	.0	.0	.0	.0	.0	8.1	7.8			
WSW		.2	1.3			2.0	1.8	.2	.0	.0	.0	.0	.0	.0	5.5	9.1			
W		.5	1.4			3.1	1.5	.5	.1	.0	.0	.0	.0	.0	6.9	9.4			
WNW		.2	.8			1.8	1.8	.2	.1	.0	.0	.0	.0	.0	4.8	10.0			
NW		.2	1.3			2.5	2.5	.4	.0	.0	.0	.0	.0	.0	6.8	10.2			
NNW		.5	.8			3.5	3.3	.9	.2	.2	.0	.0	.0	.0	9.4	11.5			
VAR		.0	.0			.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
CLW		.0	.0			.0	.0	.0	.0	.0	.0	.0	.0	.0	9.8	.0			
ALL	8.5		19.0			32.1	24.7	4.8	.8	.3	.0	.0	.0	.0	100.0	8.3			

TOTAL NO. OF OBS : 1302

NOTES :  
 \* = PERCENT < .05



# 1 - SURFACE WINDS

013750 : NORFOLK, VA  
PERIOD OF RECORD : 1945-1986  
CLASS : ALL WEATHER  
CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : DEC  
HOUR : 0400 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

DIR.	SPEED (KNOTS)										TOTAL	MEAN WIND SPEED
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>=56	
N	.5	1.5	2.3	4.4	1.1	.0	.0	.0	.0	.0	.0	9.8
NNE	.2	1.1	1.6	2.5	.9	.2	.1	.1	.0	.0	.0	6.8
NE	.5	1.7	2.3	1.3	.4	.1	.2	.0	.0	.0	.0	6.4
ENE	.4	.8	.9	.7	.0	.0	.0	.0	.0	.0	.0	7.6
E	.6	.9	.5	.3	.0	.0	.0	.0	.0	.0	.0	2.4
ESE	.3	.1	.4	.1	.0	.0	.0	.0	.0	.0	.0	.8
SE	.7	.2	.4	.2	.0	.0	.0	.0	.0	.0	.0	1.5
SSE	.5	.8	.5	.4	.1	.2	.0	.0	.0	.0	.0	2.5
S	.5	1.8	2.6	.5	.0	.0	.1	.0	.0	.0	.0	5.5
SSW	1.2	2.7	3.7	1.9	.4	.1	.0	.0	.0	.0	.0	9.9
SW	.5	2.3	4.1	1.1	.1	.0	.0	.0	.0	.0	.0	8.0
WSW	.8	1.5	2.1	1.8	.2	.1	.0	.0	.0	.0	.0	6.6
W	.4	2.1	2.5	1.8	.3	.1	.0	.0	.0	.0	.0	7.1
WNW	.4	.7	2.2	1.7	.3	.0	.1	.0	.0	.0	.0	5.4
NW	.2	1.2	2.2	1.7	.4	.0	.0	.0	.0	.0	.0	5.8
NNW	.5	1.0	2.9	3.7	.8	.2	.1	.0	.0	.0	.0	9.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
ALL	8.2	20.5	31.2	24.0	5.0	.8	.5	.1	.0	.0	.0	100.0

TOTAL NO. OF OBS : 1302

NOTES :  
\* = PERCENT < .05



# 1 - SURFACE WINDS

013750 : NORFOLK, VA  
 PERIOD OF RECORD : 1945-1986  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
 MONTH : DEC  
 HOUR : 0700 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

DIR.	SPEED (KNOTS)										TOTAL %	MEAN WIND SPEED
	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55		
N	.6	2.2	1.7	2.8	1.1	.3	.1	.0	.0	.0	8.8	10.7
NNE	.2	1.1	2.7	2.9	.7	.3	.2	.0	.0	.0	8.1	11.8
NE	.4	1.8	2.8	1.2	.5	.0	.1	.0	.0	.0	6.7	8.9
ENE	.2	.9	.7	.1	.1	.0	.0	.0	.0	.0	1.9	7.0
E	.3	.7	.5	.2	.1	.0	.0	.0	.0	.0	1.8	7.3
ESE	.2	.7	.2	.1	.0	.0	.0	.0	.0	.0	1.2	5.2
SE	.4	.3	.3	.2	.0	.0	.0	.0	.0	.0	1.2	6.1
SSE	1.0	.5	.7	.5	.2	.0	.0	.0	.0	.0	2.9	7.1
S	.7	2.2	2.2	.9	.1	.0	.0	.0	.0	.0	6.1	7.5
SSW	.8	3.3	4.2	1.4	.5	.0	.0	.0	.0	.0	10.3	8.2
SW	1.1	2.7	2.8	1.5	.2	.2	.0	.0	.0	.0	8.4	7.8
WSW	.5	1.1	2.5	1.3	.2	.0	.0	.0	.0	.0	5.6	8.7
W	.6	1.2	2.2	2.1	.5	.0	.0	.0	.0	.0	6.7	9.6
WNW	.5	.8	1.4	1.9	.2	.2	.0	.0	.0	.0	4.9	10.2
NW	.6	1.6	2.4	1.8	.7	.0	.0	.0	.0	.0	7.1	9.3
NNW	.4	1.5	3.8	3.5	.6	.2	.0	.0	.0	.0	10.1	10.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.4	.0
ALL	8.4	22.5	31.0	22.4	5.7	1.2	.4	.0	.0	.0	100.0	8.4

TOTAL NO. OF OBS : 1302

NOTES : \* = PERCENT < .05



# 1 - SURFACE WINDS

013750 : NORFOLK, VA  
 PERIOD OF RECORD : 1945-1986  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
 MONTH : DEC  
 HOUR : 1000 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

16 PT. DIR.	SPEED (KNOTS)												TOTAL %	MEAN WIND SPEED	
	1	3	4	6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55			>56
N	.9		1.7		3.0	3.4	1.0	.2	.0	.0	.0	.0	.0	10.2	10.4
NNE	.6		1.6		3.2	4.5	1.2	.2	.1	.0	.0	.0	.0	11.5	11.2
NE	.2		1.5		2.2	1.2	.2	.0	.1	.0	.0	.0	.0	5.4	9.0
ENE	.3		.9		.8	.7	.2	.0	.0	.0	.0	.0	.0	2.8	8.2
E	.9		.7		.8	.2	.0	.0	.0	.0	.0	.0	.0	2.5	5.5
ESE	.2		.8		.2	.2	.1	.0	.0	.0	.0	.0	.0	1.5	7.3
SE	.2		.5		.6	.4	.1	.0	.0	.0	.0	.0	.0	1.8	8.1
SSE	.2		.5		1.0	.5	.0	.1	.0	.0	.0	.0	.0	2.4	8.9
S	.4		2.0		2.6	1.4	.2	.0	.0	.0	.0	.0	.0	6.5	8.4
SSW	.5		1.5		4.2	2.5	.2	.1	.0	.0	.0	.0	.0	9.0	9.3
SW	.3		2.2		3.4	3.1	.1	.1	.0	.0	.0	.0	.0	9.1	9.2
WSW	.5		2.2		2.2	1.7	.8	.2	.0	.0	.0	.0	.0	7.7	9.8
W	.5		1.9		2.4	3.1	.4	.2	.0	.0	.0	.0	.0	8.5	10.1
WNW	.2		.7		1.2	1.9	.5	.1	.0	.0	.0	.0	.0	4.6	11.0
NW	.2		.6		1.5	2.0	.3	.2	.0	.0	.0	.0	.0	4.8	11.0
NNW	.5		1.2		2.6	3.3	1.2	.1	.0	.0	.0	.0	.0	8.8	11.2
VAR	.0		.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLM	.0		.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	2.8	.0
ALL	6.8		20.4		32.0	30.1	6.4	1.5	.2	.0	.0	.0	.0	100.0	9.5

TOTAL NO. OF OBS : 1301

NOTES : \* = PERCENT < .05



# 1 - SURFACE WINDS

013750 : NORFOLK, VA  
 PERIOD OF RECORD : 1945-1986  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
 MONTH : DEC  
 HOUR : 1300 LST

PERCENTAGE FREQUENCY OF WIND  
 DIRECTION VS SPEED  
 (FROM HOURLY OBSERVATIONS)

DIR.	16 PT.	1	2	3	4	5	6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>=56	TOTAL	MEAN
																	%	WIND
																		SPEED
N	1.2	2.5	3.1	2.8	.8	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10.5	9.5
NNE	1.1	2.8	4.6	4.9	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14.3	9.7
NE	.1	2.0	2.2	1.4	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.8	8.7
ENE	.3	.9	.8	.8	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.0	8.9
E	.4	.9	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0	6.0
ESE	.2	.5	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	7.5
SE	.1	.1	.4	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	10.3
SSE	.2	.4	.9	.7	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.5	9.7
S	.5	1.0	1.7	.9	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.3	8.3
SSW	.3	1.2	3.2	3.8	.6	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.2	10.7
SW	.2	1.6	3.3	2.4	.8	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.5	10.3
WSW	.9	1.2	3.1	3.7	.6	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.7	10.3
W	.6	1.8	3.9	3.1	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.8	9.7
WNW	.5	1.0	1.4	4.0	1.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.2	11.9
NW	.2	.5	1.3	2.0	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.3	10.7
MNW	.5	.5	1.4	2.0	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.7	10.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	.0
ALL	7.3	18.9	31.9	33.0	6.5	1.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	9.8

TOTAL NO. OF OBS : 1301

NOTES :  
 \* = PERCENT < .05



# 1 - SURFACE WINDS

013750 : NORFOLK, VA  
 PERIOD OF RECORD : 1945-1986  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
 MONTH : DEC  
 HOUR : 1600 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

16 PT. 1		SPEED (KNOTS)																TOTAL %	MEAN
DIR.	1 - 3	4 - 6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>=56	%	SPEED						
N	.2	1.0	2.2	2.9	.5	.2	.0	.0	.0	.0	.0	7.1	11.1						
NNE	1.1	1.8	3.6	3.1	1.2	.1	.1	.0	.0	.0	.0	10.9	10.1						
NE	.8	3.1	2.0	.9	.2	.0	.1	.0	.0	.0	.0	7.0	7.4						
ENE	1.3	2.5	1.0	.3	.1	.0	.0	.0	.0	.0	.0	5.2	5.7						
E	1.5	2.8	.4	.2	.0	.0	.0	.0	.0	.0	.0	5.0	4.8						
ESE	.4	.3	.4	.3	.0	.0	.0	.0	.0	.0	.0	1.4	7.1						
SE	.2	.3	.8	.1	.1	.0	.0	.0	.0	.0	.0	1.4	7.7						
SSE	.2	.5	.5	.7	.2	.1	.0	.0	.0	.0	.0	2.0	10.0						
S	.6	1.4	2.2	1.0	.3	.1	.0	.0	.0	.0	.0	5.6	8.6						
SSW	.6	1.9	4.4	2.2	.3	.0	.0	.0	.0	.0	.0	9.4	8.9						
SW	.8	1.1	3.6	1.4	.2	.1	.0	.1	.0	.0	.0	7.2	9.0						
WSW	.5	1.9	2.9	2.4	.3	.0	.0	.0	.0	.0	.0	8.1	9.1						
W	.9	1.8	2.6	2.3	.5	.2	.1	.0	.0	.0	.0	8.5	9.6						
WNW	.3	1.0	3.2	3.0	.4	.3	.0	.0	.0	.0	.0	8.2	11.1						
NW	.2	.6	2.0	1.2	.2	.0	.0	.0	.0	.0	.0	4.3	9.7						
NNW	.4	.7	1.2	2.0	.5	.0	.0	.0	.0	.0	.0	4.8	10.7						
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0						
CLM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.8	.0						
ALL	10.0	22.7	33.0	24.0	5.1	1.1	.2	.1	.0	.0	.0	100.0	8.7						

TOTAL NO. OF OBS : 1302

NOTES :  
 \* = PERCENT < .05



# 1 - SURFACE WINDS

013750 : NORFOLK, VA  
 PERIOD OF RECORD : 1945-1986  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
 MONTH : DEC  
 HOUR : 1900 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

16 PT.	1	-	3	4	-	6	7-10	11-16	17-21	SPEED (KNOTS)					TOTAL	MEAN	
DIR.	1	-	3	4	-	6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	%	WIND	SPEED
N	.3			1.5			3.2	2.7	.8	.2	.0	.0	.0	.0	8.7	10.4	
NNE	.7			1.5			2.3	3.0	.9	.2	.2	.0	.0	.0	8.7	10.7	
NE	.5			1.2			1.7	1.4	.1	.0	.0	.0	.0	.0	4.8	8.4	
ENE	1.0			1.1			.8	.6	.0	.0	.0	.0	.0	.0	3.5	6.4	
E	.9			1.0			.2	.3	.0	.0	.0	.0	.0	.0	2.5	5.3	
ESE	1.0			1.0			.2	.0	.1	.0	.0	.0	.0	.0	2.3	4.3	
SE	.7			1.6			.6	.2	.0	.0	.0	.0	.0	.0	3.2	5.7	
SSE	1.2			1.5			1.2	.2	.2	.2	.0	.0	.0	.0	4.4	6.9	
S	1.6			2.7			2.9	1.8	.2	.0	.0	.0	.0	.0	9.2	7.5	
SSW	1.1			3.5			4.8	2.2	.1	.1	.0	.0	.0	.0	11.7	7.8	
SW	.8			2.3			1.9	.9	.2	.2	.0	.0	.0	.0	6.2	7.6	
WSW	1.0			1.0			1.1	1.3	.1	.0	.0	.0	.0	.0	4.5	7.8	
W	.3			1.2			1.7	1.2	.6	.1	.0	.0	.0	.0	5.1	10.1	
WNW	.1			.6			1.2	1.3	.4	.1	.1	.0	.0	.0	3.8	11.0	
NW	.5			.9			1.8	1.7	.5	.0	.0	.0	.0	.0	5.5	9.7	
NNW	.2			1.2			2.0	2.5	.3	.1	.1	.0	.0	.0	6.4	10.4	
VAR	.0			.0			.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CLM	.0			.0			.0	.0	.0	.0	.0	.0	.0	.0	9.6	.0	
ALL	11.9			23.8			27.7	21.3	4.5	.9	.3	.0	.0	.0	100.0	7.7	

TOTAL NO. OF OBS : 1301

NOTES : \* = PERCENT < .05



# 1 - SURFACE WINDS

Q13750 : NORFOLK, VA  
 PERIOD OF RECORD : 1945-1986  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
 MONTH : DEC  
 HOUR : 2200 LST

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

16 PT. DIR.		1	3	4	6	7-10	11-16	17-21	SPEED (KNOTS)				TOTAL %				MEAN	
DIR.																		
N		.3	1.1			2.7	3.2	.7	.1	.1	.0	.0	.0	.0	.0	8.1	11.1	
NNE		.2	1.3			2.7	2.7	.3	.2	.0	.0	.0	.0	.0	.0	7.5	10.5	
NE		.6	.8			1.6	1.2	.2	.1	.1	.0	.0	.0	.0	.0	4.6	9.4	
ENE		.7	.9			.8	.2	.2	.0	.0	.0	.0	.0	.0	.0	2.8	6.9	
E		.7	.9			.7	.4	.1	.0	.0	.0	.0	.0	.0	.0	2.8	6.8	
ESE		.8	.9			.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	1.9	4.2	
SE		.5	1.2			.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.8	4.9	
SSE		1.0	1.2			.7	.2	.2	.0	.0	.0	.0	.0	.0	.0	3.4	6.6	
S		1.4	1.8			3.5	1.8	.2	.0	.0	.0	.0	.0	.0	.0	8.7	8.0	
SSW		1.3	2.3			4.8	3.2	.3	.1	.0	.0	.0	.0	.0	.0	11.9	8.7	
SW		.5	1.7			3.8	1.7	.1	.1	.0	.0	.0	.0	.0	.0	7.9	8.5	
WSW		.5	1.5			2.0	1.1	.2	.1	.0	.0	.0	.0	.0	.0	5.2	8.3	
W		.5	.9			1.5	1.8	.2	.2	.0	.0	.0	.0	.0	.0	5.2	10.0	
WNW		.1	.8			1.3	1.5	.5	.2	.0	.0	.0	.0	.0	.0	4.3	11.3	
NW		.3	.6			2.2	1.7	.5	.0	.0	.0	.0	.0	.0	.0	5.2	10.4	
NNW		.2	.9			2.8	3.2	.5	.2	.0	.0	.0	.0	.0	.0	7.8	11.2	
VAR		.0	.0			.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CLM		.0	.0			.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10.8	.0	
ALL		9.5	18.9			31.4	24.0	4.2	1.1	.2	.0	.0	.0	.0	.0	100.0	8.1	

TOTAL NO. OF OBS : 1301

NOTES :  
 \* = PERCENT < .05



# 1 - SURFACE WINDS

013750 : NORFOLK, VA  
 PERIOD OF RECORD : 1945-1986  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
 MONTH : DEC  
 HOUR : ALL

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>56	TOTAL	MEAN
												%	WIND SPEED
N	.5	1.6	2.6	3.2	.9	.2	.0*	.0	.0	.0	.0	9.0	10.6
NNE	.6	1.5	2.8	3.3	.9	.2	.1	.0*	.0	.0	.0	9.3	10.7
NE	.4	1.7	2.1	1.2	.2	.0*	.0	.0	.0	.0	.0	5.7	8.7
ENE	.6	1.2	.8	.5	.1	.0*	.0	.0	.0	.0	.0	3.1	7.1
E	.7	1.1	.5	.3	.0*	.0	.0	.0	.0	.0	.0	2.6	5.9
ESE	.5	.6	.3	.1	.0*	.0	.0	.0	.0	.0	.0	1.5	5.6
SE	.4	.6	.4	.2	.0*	.0	.0	.0	.0	.0	.0	1.6	6.4
SSE	.7	.8	.7	.4	.2	.1	.0	.0	.0	.0	.0	2.8	7.7
S	.8	1.8	2.6	1.2	.2	.0*	.0	.0	.0	.0	.0	6.6	7.9
SSW	.8	2.4	4.3	2.5	.3	.1	.0	.0	.0	.0	.0	10.4	8.7
SW	.6	2.0	3.3	1.7	.2	.1	.0*	.0	.0	.0	.0	7.9	8.5
WSW	.6	1.5	2.2	1.9	.3	.1	.0	.0	.0	.0	.0	6.6	9.2
W	.5	1.5	2.5	2.1	.4	.1	.0*	.0	.0	.0	.0	7.2	9.7
WNW	.3	.8	1.7	2.1	.5	.1	.0*	.0	.0	.0	.0	5.5	10.9
NW	.3	.9	2.0	1.8	.4	.0*	.0	.0	.0	.0	.0	5.5	10.0
NNW	.4	1.0	2.5	2.9	.6	.1	.0*	.0	.0	.0	.0	7.6	11.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.0	.0
ALL	8.8	20.8	31.3	25.4	5.3	1.1	.3	.0*	.0	.0	.0	100.0	8.6

TOTAL NO. OF OBS : 10412

NOTES : \* = PERCENT < .05



# 1 - SURFACE WINDS

013750 : NORFOLK, VA  
 PERIOD OF RECORD : 1945-1986  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
 MONTH : ANN  
 HOUR : ALL

## PERCENTAGE FREQUENCY OF WIND DIRECTION VS SPEED (FROM HOURLY OBSERVATIONS)

16 PT.		SPEED (KNOTS)												TOTAL	MEAN
DIR.		1 - 3	4 - 6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	>56	%	SPEED	
N	.5	1.4		2.0	2.3	.6	.1	.0*	.0*	.0	.0	.0	7.1	10.3	
NNE	.4	1.5		2.5	2.5	.8	.3	.1	.0*	.0	.0	.0	8.0	10.8	
NE	.4	1.5		2.2	1.6	.4	.1	.0*	.0*	.0	.0	.0	6.3	9.4	
ENE	.6	1.7		2.3	1.2	.2	.0*	.0*	.0*	.0	.0	.0	6.1	8.2	
E	.9	1.9		1.8	.5	.1	.0*	.0	.0	.0	.0	.0	5.3	6.7	
ESE	.6	.9		.7	.2	.0*	.0*	.0*	.0*	.0	.0	.0	2.5	6.4	
SE	.8	1.2		1.0	.4	.1	.0*	.0	.0*	.0	.0	.0	3.4	6.5	
SSE	1.0	1.6		1.3	.6	.1	.0*	.0*	.0*	.0	.0	.0	4.6	6.7	
S	1.0	2.1		2.6	1.4	.2	.0*	.0*	.0*	.0	.0	.0	7.4	8.0	
SSW	.7	2.2		4.4	2.9	.4	.1	.0*	.0*	.0*	.0	.0	10.7	9.2	
SW	.6	2.1		3.2	1.8	.3	.1	.0*	.0*	.0	.0	.0	8.0	8.7	
WSW	.5	1.6		2.2	1.4	.3	.1	.0*	.0*	.0	.0	.0	6.0	8.7	
W	.5	1.5		2.1	1.4	.3	.1	.0*	.0*	.0	.0	.0	5.9	9.0	
WNW	.2	.7		1.3	1.2	.3	.1	.0*	.0*	.0	.0	.0	3.8	10.0	
NW	.2	.8		1.3	1.1	.2	.0*	.0*	.0	.0	.0	.0	3.7	9.7	
NNW	.3	.9		1.7	1.7	.4	.1	.0*	.0*	.0	.0	.0	5.0	10.2	
VAR	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CLM	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	6.2	.0	
ALL	9.2	23.6		32.9	22.3	4.5	1.1	.2	.0*	.0*	.0	.0	100.0	8.3	

TOTAL NO. OF OBS : 122389

NOTES :  
 \* = PERCENT < .05



## 2 - CEILING VS VISIBILITY

013750 : NORFOLK, VA  
PERIOD OF RECORD : 1945-1986  
CLASS : ALL WEATHER  
CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : DEC  
HOUR : 0100 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)															
	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=1	1/2	>=1	1/4	>=1	3/4	>=5/8	>=1/2	>=5/16
UNLIMIT	8.6	53.6	56.0	57.3	57.9	58.1	58.9	59.1	59.1	59.1	59.1	59.1	59.1	59.1	59.2	59.3
>=20000	8.8	55.6	58.2	59.5	60.0	60.4	61.1	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.5	61.5
>=18000	8.8	55.7	58.2	59.6	60.1	60.4	61.2	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.6
>=16000	8.8	55.7	58.2	59.6	60.1	60.4	61.2	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.5	61.7
>=14000	8.9	55.9	58.5	59.8	60.4	60.8	61.5	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	62.0
>=12000	9.1	57.2	59.9	61.3	61.9	62.2	63.1	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.4	63.6
>=10000	9.1	60.3	63.0	64.4	65.1	65.4	66.2	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.7
>=9000	9.1	60.6	63.3	64.8	65.4	65.8	66.6	66.8	66.8	66.8	66.8	66.8	66.8	66.8	66.9	67.1
>=8000	9.3	65.1	68.0	69.7	70.6	70.9	71.8	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.1	72.2
>=7000	9.3	66.5	69.5	71.4	72.2	72.6	73.4	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.9
>=6000	9.6	67.2	70.3	72.2	73.2	73.5	74.4	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.9
>=5000	9.8	69.1	72.2	74.2	75.2	75.5	76.5	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.8	76.9
>=4500	9.9	70.2	73.3	75.4	76.5	76.8	77.7	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.0	78.2
>=3500	10.2	72.3	75.7	77.8	78.8	79.1	80.1	80.3	80.3	80.3	80.3	80.3	80.3	80.3	80.4	80.5
>=3000	10.2	74.4	78.1	80.2	81.4	81.7	82.6	82.9	82.9	82.9	82.9	82.9	82.9	82.9	83.0	83.1
>=2500	10.2	75.0	79.0	81.2	82.4	82.8	83.7	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.3
>=2000	10.3	76.0	80.0	82.3	83.7	84.1	85.1	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.7
>=1800	10.3	76.5	80.5	82.8	84.3	84.7	85.7	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.1	86.2
>=1500	10.3	77.2	81.4	83.7	85.2	85.6	86.6	86.9	86.9	86.9	86.9	86.9	86.9	86.9	87.0	87.2
>=1200	10.3	77.7	82.0	84.4	85.9	86.4	87.4	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.9	88.0
>=1000	10.3	78.7	83.3	86.0	87.6	88.0	89.1	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.5	89.7
>=900	10.3	78.8	83.3	86.2	87.9	88.4	89.4	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	90.0
>=800	10.3	79.0	83.7	86.8	88.7	89.3	90.4	90.9	90.9	90.9	90.9	90.9	90.9	90.9	91.0	91.2
>=700	10.3	79.4	84.4	87.7	89.7	90.3	91.5	91.9	91.9	91.9	91.9	91.9	91.9	91.9	92.0	92.3
>=600	10.3	79.7	85.1	88.7	90.7	91.5	92.7	93.1	93.1	93.1	93.1	93.1	93.1	93.1	93.4	93.5
>=500	10.3	80.0	85.5	89.2	91.6	92.3	93.6	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.3	94.4
>=400	10.3	80.1	85.6	89.6	92.6	93.4	94.8	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.7	95.8
>=300	10.3	80.1	85.6	89.6	92.9	93.7	95.4	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.7	96.9
>=200	10.3	80.1	85.6	89.7	93.1	94.0	95.8	96.6	96.6	96.6	96.6	96.6	96.6	96.6	97.9	98.1
>=100	10.3	80.1	85.6	89.7	93.1	94.0	95.9	96.7	96.7	96.7	96.7	96.7	96.7	96.7	98.5	98.9
>=0	10.3	80.1	85.6	89.7	93.1	94.0	95.9	96.7	96.7	96.7	96.7	96.7	96.7	96.7	98.5	100.0

TOTAL NO. OF OBS : 1279



013750 : NORFOLK, VA  
PERIOD OF RECORD : 1945-1986  
CLASS : ALL WEATHER  
CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : DEC  
HOUR : 0400 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)													
	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=1	1/4	>=1/8	>=5/16	>=1/4	>=0	
UNLIMITED	8.9	52.1	54.5	56.0	56.8	57.1	57.6	58.0	58.0	58.2	58.3	58.4	58.7	
>=20000	9.0	53.9	56.4	57.9	58.7	58.9	59.5	60.0	60.0	60.1	60.3	60.4	60.7	
>=18000	9.0	53.9	56.4	57.9	58.7	58.9	59.5	60.0	60.0	60.1	60.3	60.4	60.7	
>=16000	9.1	54.0	56.5	58.1	58.9	59.1	59.6	60.1	60.1	60.3	60.4	60.5	60.8	
>=14000	9.1	54.3	56.8	58.4	59.2	59.4	60.0	60.4	60.4	60.6	60.7	60.8	61.1	
>=12000	9.3	56.0	58.7	60.3	61.1	61.4	61.9	62.4	62.4	62.5	62.7	62.8	63.1	
>=10000	9.3	59.8	62.5	64.2	65.0	65.3	65.8	66.3	66.3	66.4	66.6	66.7	67.0	
>=9000	9.3	60.4	63.2	64.9	65.7	65.9	66.4	66.9	66.9	67.1	67.2	67.3	67.6	
>=8000	9.4	64.1	67.1	68.9	69.8	70.0	70.6	71.0	71.0	71.2	71.4	71.4	71.7	
>=7000	9.4	64.9	68.0	69.8	70.7	71.0	71.5	72.0	72.0	72.1	72.3	72.4	72.7	
>=6000	9.4	65.8	68.9	70.6	71.7	71.9	72.4	72.9	72.9	73.1	73.2	73.3	73.6	
>=5000	9.5	67.7	70.7	72.5	73.5	73.8	74.3	74.8	74.8	74.9	75.1	75.2	75.5	
>=4500	9.6	69.2	72.3	74.1	75.1	75.3	75.9	76.3	76.3	76.5	76.7	76.8	77.0	
>=4000	9.7	71.5	74.9	76.8	77.8	78.1	78.6	79.1	79.1	79.2	79.4	79.5	79.8	
>=3500	9.7	72.3	75.6	77.6	78.6	78.8	79.4	79.9	79.9	80.0	80.2	80.3	80.6	
>=3000	9.8	74.2	77.6	79.8	80.8	81.0	81.6	82.0	82.0	82.3	82.4	82.6	82.8	
>=2500	9.8	75.0	78.8	81.0	82.0	82.2	82.7	83.2	83.2	83.5	83.6	83.7	84.0	
>=2000	9.9	76.3	80.1	82.4	83.5	83.8	84.3	84.8	84.8	85.0	85.2	85.3	85.6	
>=1800	9.9	76.4	80.3	82.7	83.7	84.0	84.5	85.0	85.0	85.2	85.4	85.5	85.8	
>=1500	9.9	76.9	81.0	83.6	84.7	85.0	85.6	86.0	86.0	86.3	86.4	86.5	86.8	
>=1200	9.9	77.8	81.9	84.8	85.9	86.2	86.7	87.2	87.2	87.4	87.6	87.7	88.1	
>=1000	9.9	78.5	82.7	85.6	86.8	87.2	87.7	88.2	88.2	88.4	88.6	88.7	89.1	
>=900	9.9	78.7	83.3	86.3	87.4	87.8	88.4	88.9	88.9	89.1	89.3	89.4	89.9	
>=800	9.9	79.2	83.8	87.1	88.5	88.9	89.7	90.2	90.2	90.4	90.6	90.9	91.1	
>=700	9.9	79.5	84.4	87.7	89.1	89.5	90.3	90.8	90.8	91.0	91.2	91.3	91.7	
>=600	9.9	79.7	84.5	88.1	89.7	90.1	90.9	91.4	91.4	91.6	91.8	91.9	92.3	
>=500	9.9	80.0	84.9	88.5	90.3	90.8	91.6	92.1	92.1	92.3	92.5	92.6	93.1	
>=400	9.9	80.2	85.1	89.1	91.4	92.0	93.2	93.8	93.8	94.0	94.2	94.3	94.8	
>=300	9.9	80.2	85.2	89.2	91.8	92.5	94.0	94.8	94.9	95.3	95.6	95.7	96.2	
>=200	9.9	80.2	85.2	89.3	92.0	92.7	94.5	95.3	95.5	95.9	96.2	96.6	97.3	
>=100	9.9	80.2	85.2	89.3	92.0	92.8	94.6	95.4	95.6	96.3	96.8	97.1	98.4	
= 0	9.9	80.2	85.2	89.3	92.0	92.8	94.6	95.4	95.6	96.4	96.9	97.4	100.0	

TOTAL NO. OF OBS : 1281



## 2 - CEILING VS VISIBILITY

013750 : NORFOLK, VA  
PERIOD OF RECORD : 1945-1986  
CLASS : ALL WEATHER  
CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : DEC  
HOUR : 0700 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)									
	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=1	1/4	>=0
UNLIMIT	5.5	40.2	43.2	45.4	47.6	48.1	49.2	49.6	49.8	50.1
>=20000	5.7	42.2	45.8	48.1	50.4	51.1	52.2	52.6	52.7	53.2
>=18000	5.7	42.2	45.8	48.1	50.5	51.3	52.4	52.8	53.0	53.4
>=16000	5.7	42.2	45.8	48.1	50.5	51.3	52.4	52.8	53.0	53.6
>=14000	5.9	42.6	46.2	48.5	51.0	51.7	53.0	53.4	53.5	54.0
>=12000	6.2	44.8	48.4	50.8	53.3	54.0	55.3	55.6	55.8	56.3
>=10000	6.4	48.5	52.3	54.6	57.2	57.9	59.2	59.6	59.8	60.3
>=9000	6.4	48.7	52.5	54.9	57.4	58.2	59.5	59.9	60.0	60.5
>=8000	6.6	53.3	57.6	60.3	63.1	63.9	65.3	65.8	66.0	66.5
>=7000	6.6	54.7	59.2	61.9	64.8	65.6	67.0	67.6	67.7	68.2
>=6000	6.7	55.6	60.1	62.9	65.8	66.6	68.0	68.6	68.7	69.2
>=5000	6.7	56.9	61.6	64.9	67.9	68.7	70.2	70.8	70.9	71.4
>=4500	6.8	57.4	62.2	65.6	68.6	69.4	70.9	71.5	71.6	72.1
>=4000	7.0	59.2	64.4	67.8	70.8	71.8	73.4	73.9	74.1	74.5
>=3500	7.1	60.1	65.4	68.9	72.1	73.0	74.6	75.2	75.4	75.9
>=3000	7.1	62.1	67.7	71.2	74.5	75.5	77.1	77.7	77.9	78.4
>=2500	7.1	63.6	69.4	73.0	76.3	77.3	78.9	79.5	79.7	80.3
>=2000	7.3	64.5	70.4	74.2	77.8	78.8	80.4	81.0	81.2	81.8
>=1800	7.3	64.9	70.8	74.7	78.3	79.2	81.0	81.6	81.7	82.4
>=1500	7.3	65.7	71.6	75.7	79.4	80.5	82.2	82.8	83.0	83.6
>=1200	7.4	66.1	72.3	76.5	80.3	81.4	83.2	83.9	84.0	84.6
>=1000	7.4	67.0	73.4	77.7	81.7	82.9	84.7	85.3	85.5	86.1
>=900	7.4	67.2	73.5	77.8	82.0	83.3	85.2	85.8	86.0	86.6
>=800	7.4	67.8	74.5	79.1	83.4	84.7	86.8	87.6	87.8	88.4
>=700	7.4	68.1	75.1	79.8	84.2	85.5	87.6	88.6	88.8	89.4
>=600	7.4	68.5	75.6	80.5	85.0	86.4	88.5	89.6	89.7	90.4
>=500	7.4	68.7	75.9	81.0	85.6	87.1	89.5	90.8	90.9	91.6
>=400	7.4	68.8	76.3	81.7	86.6	88.2	90.7	92.1	92.2	93.0
>=300	7.4	68.8	76.3	81.7	86.6	88.4	91.6	93.0	93.2	94.0
>=200	7.4	68.8	76.3	81.7	86.8	88.6	92.0	93.6	94.0	95.2
>=100	7.4	68.8	76.3	81.7	86.8	88.6	92.0	93.6	94.0	95.2
>= 0	7.4	68.8	76.3	81.7	86.8	88.6	92.0	93.6	94.0	95.2

TOTAL NO. OF OBS : 1276



## 2 - CEILING VS VISIBILITY

013750 : NORFOLK, VA  
PERIOD OF RECORD : 1945-1986  
CLASS : ALL WEATHER  
CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : DEC  
HOUR : 1000 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

## VISIBILITY (STATUTE MILES)

CEILING	>=10	>=6	>=5	>=4	>=3	>=2 1/2	>=2	>=1 1/2	>=1 1/4	>=1	>=3/4	>=5/8	>=1/2	>=5/16	>=1/4	>=0
UNLIMIT	6.6	42.2	45.2	48.4	49.9	50.1	50.6	50.8	50.8	50.8	50.9	50.9	50.9	50.9	50.9	51.0
>=20000	7.0	45.5	48.6	52.1	53.6	53.8	54.3	54.5	54.5	54.5	54.7	54.7	54.7	54.7	54.7	54.7
>=18000	7.0	45.7	48.8	52.3	53.9	54.0	54.5	54.7	54.7	54.7	54.9	54.9	54.9	54.9	54.9	55.0
>=16000	7.0	45.8	48.9	52.4	53.9	54.1	54.6	54.8	54.8	54.8	55.0	55.0	55.0	55.0	55.0	55.1
>=14000	7.5	46.8	49.9	53.4	55.1	55.2	55.7	55.9	55.9	55.9	56.1	56.1	56.1	56.1	56.1	56.2
>=12000	7.8	48.3	51.7	55.5	57.1	57.3	57.7	58.0	58.0	58.0	58.1	58.1	58.1	58.1	58.1	58.2
>=10000	7.9	52.1	55.5	59.6	61.6	61.8	62.4	62.6	62.6	62.6	62.8	62.8	62.8	62.8	62.8	62.9
>=9000	7.9	52.4	55.8	60.0	62.0	62.2	62.8	63.0	63.0	63.0	63.2	63.2	63.2	63.2	63.2	63.3
>=8000	8.1	56.6	60.8	65.2	67.5	68.0	68.7	69.1	69.1	69.1	69.3	69.3	69.3	69.3	69.3	69.4
>=7000	8.2	58.1	62.6	67.1	69.4	70.0	70.7	71.1	71.1	71.1	71.2	71.2	71.2	71.2	71.2	71.3
>=6000	8.3	59.6	63.5	68.1	70.6	71.2	72.0	72.4	72.4	72.4	72.5	72.5	72.5	72.5	72.5	72.6
>=5000	8.3	59.3	64.5	69.1	71.7	72.3	73.1	73.5	73.5	73.5	73.6	73.6	73.6	73.6	73.6	73.7
>=4500	8.3	60.4	65.6	70.3	72.9	73.5	74.2	74.6	74.6	74.6	74.8	74.8	74.8	74.8	74.8	74.9
>=4000	8.3	61.9	67.4	72.4	75.2	75.8	76.6	77.0	77.0	77.0	77.2	77.2	77.2	77.2	77.2	77.3
>=3500	8.3	63.0	68.5	73.6	76.5	77.2	78.0	78.4	78.4	78.4	78.5	78.5	78.5	78.5	78.5	78.6
>=3000	8.4	64.0	69.8	75.0	78.1	78.8	79.7	80.1	80.1	80.1	80.3	80.3	80.3	80.3	80.3	80.4
>=2500	8.4	64.8	70.9	76.1	79.3	80.0	81.0	81.4	81.4	81.4	81.6	81.6	81.6	81.6	81.6	81.8
>=2000	8.4	66.0	72.4	77.7	81.1	81.9	83.0	83.5	83.5	83.5	83.6	83.6	83.6	83.6	83.6	83.8
>=1800	8.4	66.3	72.7	78.0	81.5	82.4	83.5	84.0	84.0	84.0	84.1	84.1	84.1	84.1	84.1	84.3
>=1500	8.4	67.1	73.6	79.1	82.5	83.4	84.6	85.3	85.3	85.3	85.5	85.5	85.5	85.5	85.5	85.6
>=1200	8.5	67.5	74.1	79.7	83.3	84.2	85.5	86.2	86.2	86.2	86.3	86.3	86.3	86.3	86.3	86.5
>=1000	8.5	68.2	75.0	81.0	84.9	85.9	87.3	88.2	88.2	88.2	88.3	88.3	88.3	88.3	88.3	88.5
>=900	8.5	68.4	75.4	81.6	85.6	86.8	88.3	89.2	89.2	89.2	89.3	89.3	89.3	89.3	89.3	89.5
>=800	8.5	68.6	75.7	82.0	86.2	87.4	89.1	90.0	90.0	90.0	90.1	90.1	90.1	90.1	90.1	90.5
>=700	8.5	68.8	76.1	82.5	86.8	88.2	89.9	90.9	90.9	90.9	91.1	91.1	91.1	91.1	91.1	91.5
>=600	8.5	68.9	76.2	82.6	87.2	88.5	90.7	91.9	91.9	91.9	92.1	92.1	92.1	92.1	92.1	92.5
>=500	8.5	69.0	76.6	83.3	88.2	89.6	91.8	93.0	93.0	93.0	93.6	93.6	93.6	93.6	93.6	94.0
>=400	8.5	69.1	76.7	83.4	88.5	90.4	92.9	94.6	94.7	94.7	95.6	95.6	95.6	95.6	95.6	96.1
>=300	8.5	69.2	76.8	83.5	88.9	90.9	93.8	95.7	95.7	95.7	97.2	97.2	97.2	97.2	97.2	98.0
>=200	8.5	69.2	76.8	83.6	88.9	91.0	94.0	96.1	96.1	96.1	97.8	97.8	97.8	97.8	97.8	99.1
>=100	8.5	69.2	76.8	83.6	88.9	91.0	94.0	96.1	96.1	96.1	97.9	97.9	97.9	97.9	97.9	99.8
>=0	8.5	69.2	76.8	83.6	88.9	91.0	94.0	96.1	96.1	96.1	97.9	97.9	97.9	97.9	97.9	100.0

TOTAL NO. OF OBS : 1266



# 2 - CEILING VS VISIBILITY

013750 : NORFOLK, VA  
 PERIOD OF RECORD : 1945-1986  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
 MONTH : DEC  
 HOUR : 1300 LST

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)															
	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=1	1/2	>=1	1/4	>=1	3/4	>=5/8	>=1/2	>=5/16
UNLIMIT	10.5	47.6	49.6	50.5	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1	51.1
>=20000	11.3	51.5	53.7	54.6	55.4	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5	55.5
>=18000	11.3	51.5	53.8	54.7	55.5	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6
>=16000	11.4	51.6	53.9	54.9	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7
>=14000	11.7	52.4	54.7	55.7	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5
>=12000	12.2	54.4	57.0	58.1	58.9	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0
>=10000	12.4	57.7	60.4	61.6	62.5	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6
>= 9000	12.4	58.3	61.1	62.3	63.1	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2
>= 8000	12.5	62.5	66.0	67.2	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4	68.4
>= 7000	12.5	63.9	67.6	69.2	70.3	70.4	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5
>= 6000	12.8	64.8	68.5	70.3	71.5	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6
>= 5000	12.8	66.1	69.9	71.8	73.1	73.2	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3
>= 4500	12.9	67.3	71.3	73.2	74.5	74.5	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7
>= 4000	13.0	69.1	73.4	75.4	76.7	76.8	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0	77.0
>= 3500	13.1	69.7	74.1	76.1	77.4	77.5	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
>= 3000	13.3	72.1	76.7	79.1	80.6	80.7	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0	81.0
>= 2500	13.3	73.5	78.3	80.8	82.6	82.7	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0	83.0
>= 2000	13.4	74.5	79.5	82.3	84.4	84.6	84.9	84.9	84.9	84.9	85.1	85.1	85.1	85.1	85.1	85.1
>= 1800	13.4	74.9	79.9	82.7	84.8	85.0	85.3	85.3	85.3	85.3	85.5	85.5	85.5	85.5	85.5	85.5
>= 1500	13.4	75.8	81.1	84.1	86.4	86.7	87.0	87.0	87.0	87.0	87.2	87.2	87.2	87.2	87.2	87.2
>= 1200	13.4	76.1	81.5	84.8	87.2	87.4	87.9	87.9	87.9	88.0	88.0	88.0	88.0	88.0	88.0	88.0
>= 1000	13.5	76.7	82.6	86.0	88.7	88.9	89.5	89.5	89.5	89.7	89.7	89.7	89.7	89.7	89.7	89.7
>= 900	13.5	77.2	83.0	86.6	89.4	89.6	90.2	90.2	90.2	90.4	90.4	90.4	90.4	90.4	90.4	90.4
>= 800	13.5	77.2	83.3	87.1	90.0	90.3	91.0	91.0	91.0	91.4	91.4	91.4	91.4	91.4	91.4	91.4
>= 700	13.5	77.4	83.7	87.7	90.7	91.2	91.9	92.0	92.1	92.4	92.4	92.4	92.4	92.4	92.4	92.4
>= 600	13.5	77.5	83.8	88.0	91.2	91.8	92.9	93.0	93.1	93.6	93.6	93.6	93.6	93.6	93.6	93.6
>= 500	13.5	77.6	84.1	88.4	92.1	92.9	94.2	94.6	94.7	95.2	95.2	95.2	95.2	95.2	95.2	95.2
>= 400	13.5	77.6	84.2	88.7	92.5	93.3	95.0	95.6	95.8	96.4	96.4	96.4	96.4	96.4	96.4	96.4
>= 300	13.5	77.6	84.2	88.7	92.8	93.6	95.2	96.2	96.4	97.4	97.4	97.4	97.4	97.4	97.4	97.4
>= 200	13.5	77.6	84.2	88.7	92.8	93.6	95.5	96.7	96.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
>= 100	13.5	77.6	84.2	88.7	92.9	93.7	95.6	96.8	97.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1
>= 0	13.5	77.6	84.2	88.7	92.9	93.7	95.6	96.8	97.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1

TOTAL NO. OF OBS : 1261



## 2 - CEILING VS VISIBILITY

013750 : NORFOLK, VA  
PERIOD OF RECORD : 1945-1986  
CLASS : ALL WEATHER  
CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : DEC  
HOUR : 1600 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)									
	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=1	1/4	>=1
UNLIMIT	9.7	48.6	50.0	50.7	51.2	51.2	51.3	51.3	51.3	51.3
>=20000	10.3	53.8	55.4	56.2	56.9	56.9	56.9	56.9	56.9	56.9
>=18000	10.4	54.0	55.6	56.4	57.1	57.2	57.2	57.2	57.2	57.2
>=16000	10.5	54.2	55.8	56.6	57.3	57.4	57.4	57.4	57.4	57.4
>=14000	10.6	54.8	56.4	57.2	57.9	58.0	58.0	58.0	58.0	58.0
>=12000	11.0	57.4	59.1	59.9	60.4	60.7	60.8	60.8	60.8	60.8
>=10000	11.3	61.4	63.1	64.1	64.7	64.9	65.0	65.0	65.0	65.0
>=9000	11.4	61.6	63.4	64.4	65.0	65.2	65.3	65.3	65.3	65.3
>=8000	11.4	65.4	67.6	68.9	69.7	70.0	70.1	70.1	70.1	70.1
>=7000	11.5	66.0	68.3	69.8	70.6	70.9	71.0	71.0	71.1	71.1
>=6000	11.5	66.6	68.9	70.5	71.3	71.6	71.7	71.7	71.8	71.8
>=5000	11.6	67.4	70.1	71.8	72.8	73.1	73.2	73.2	73.2	73.2
>=4500	11.7	68.1	70.7	72.7	73.6	73.9	74.1	74.1	74.2	74.2
>=4000	11.9	70.5	73.2	75.3	76.3	76.6	76.8	76.8	76.9	76.9
>=3500	12.2	71.8	74.7	76.8	77.8	78.2	78.5	78.5	78.6	78.6
>=3000	12.4	74.0	77.2	79.7	81.3	81.7	81.7	81.7	81.8	81.8
>=2500	12.5	75.5	78.9	81.4	82.6	83.1	83.7	83.7	83.8	83.8
>=2000	12.5	76.3	80.0	82.9	84.1	84.7	85.3	85.4	85.5	85.5
>=1800	12.5	76.5	80.1	83.2	84.4	84.9	85.6	85.6	85.7	85.7
>=1500	12.5	77.0	80.8	84.2	85.5	86.3	86.9	87.0	87.1	87.1
>=1200	12.5	77.5	81.3	84.8	86.3	87.0	87.7	87.8	87.8	87.8
>=1000	12.5	78.0	81.1	86.0	87.6	88.4	89.4	89.4	89.8	89.8
>=900	12.5	78.3	82.6	86.6	88.4	89.3	90.2	90.4	90.8	90.8
>=800	12.5	78.5	82.8	86.9	88.9	89.9	91.1	91.3	92.0	92.0
>=700	12.5	78.6	83.0	87.1	89.4	90.4	91.7	91.9	92.6	92.6
>=600	12.5	78.6	83.2	87.3	90.0	91.0	92.5	93.1	93.6	93.6
>=500	12.5	78.7	83.3	87.6	90.5	91.9	93.6	94.4	95.5	95.6
>=400	12.5	78.7	83.3	87.6	90.6	92.0	93.9	95.0	96.5	96.7
>=300	12.5	78.7	83.3	87.6	90.7	92.2	94.4	95.6	97.9	98.3
>=200	12.5	78.7	83.3	87.6	90.7	92.3	94.4	95.7	98.3	99.1
>=100	12.5	78.7	83.3	87.6	90.7	92.3	94.5	95.8	98.6	99.7
>=0	12.5	78.7	83.3	87.6	90.7	92.3	94.5	95.8	98.6	100.0

TOTAL NO. OF OBS : 1259



## 2 - CEILING VS VISIBILITY

013750 : NORFOLK, VA  
PERIOD OF RECORD : 1945-1986  
CLASS : ALL WEATHER  
CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : DEC  
HOUR : 1900 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)															
	>=10	>=6	>=5	>=4	>=3	>=2 1/2	>=2	>=1 1/2	>=1 1/4	>=1	>=3/4	>=5/8	>=1/2	>=5/16	>=1/4	>=0
UNLIMIT	8.0	51.2	54.0	55.8	56.1	56.4	56.6	56.7	56.7	56.7	56.7	56.7	56.8	56.8	56.8	56.8
>=20000	8.1	53.8	56.7	58.4	58.9	59.1	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.5	59.5	59.5
>=18000	8.1	53.9	56.8	58.5	59.0	59.2	59.4	59.5	59.5	59.5	59.5	59.5	59.6	59.6	59.6	59.6
>=16000	8.1	54.0	56.9	58.6	59.0	59.3	59.5	59.6	59.6	59.6	59.6	59.6	59.7	59.7	59.7	59.7
>=14000	8.4	54.4	57.3	59.1	59.6	59.8	60.1	60.1	60.1	60.1	60.1	60.1	60.2	60.2	60.2	60.2
>=12000	8.7	56.5	59.4	61.2	61.7	61.9	62.2	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3
>=10000	8.8	59.5	62.8	64.6	65.2	65.5	65.7	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9
>=9000	8.8	60.0	63.3	65.1	65.7	65.9	66.2	66.3	66.3	66.3	66.3	66.3	66.4	66.4	66.4	66.4
>=8000	9.1	65.2	68.6	70.6	71.3	71.6	71.8	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0	72.0
>=7000	9.2	66.2	69.6	71.7	72.5	72.7	73.0	73.1	73.1	73.1	73.1	73.1	73.2	73.2	73.2	73.2
>=6000	9.2	66.7	70.3	72.4	73.3	73.5	73.8	73.9	73.9	73.9	73.9	73.9	74.0	74.0	74.0	74.0
>=5000	9.2	68.2	71.9	74.0	74.9	75.1	75.4	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6
>=4500	9.2	69.0	72.7	74.8	75.6	75.9	76.2	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4	76.4
>=4000	9.4	71.3	75.1	77.4	78.3	78.5	78.9	79.0	79.0	79.0	79.0	79.0	79.1	79.1	79.1	79.1
>=3500	9.6	72.1	76.0	78.4	79.3	79.6	79.9	80.0	80.0	80.0	80.0	80.0	80.1	80.1	80.1	80.1
>=3000	9.6	74.5	78.9	81.2	82.3	82.5	82.9	83.0	83.0	83.0	83.0	83.0	83.1	83.1	83.1	83.1
>=2500	9.6	75.6	80.0	82.5	83.6	83.8	84.1	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3
>=2000	9.7	77.0	81.8	84.3	85.7	85.9	86.3	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5
>=1800	9.7	77.2	82.1	84.7	86.0	86.2	86.7	86.8	86.8	86.8	86.8	86.8	86.9	86.9	86.9	86.9
>=1500	9.7	77.8	82.9	85.4	86.8	87.2	87.6	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9
>=1200	9.7	78.4	83.6	86.5	87.9	88.2	88.6	88.9	88.9	88.9	88.9	88.9	89.0	89.0	89.0	89.0
>=1000	9.7	79.0	84.5	87.4	88.9	89.2	89.8	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1
>=900	9.7	79.5	85.2	88.4	90.1	90.4	91.1	91.3	91.3	91.3	91.3	91.3	91.4	91.4	91.4	91.4
>=800	9.7	79.9	85.7	89.0	90.9	91.3	92.1	92.3	92.3	92.4	92.4	92.4	92.5	92.5	92.5	92.5
>=700	9.7	80.0	85.9	89.4	91.4	91.9	92.6	93.0	93.0	93.0	93.0	93.0	93.1	93.1	93.1	93.1
>=600	9.7	80.1	86.1	89.7	91.8	92.3	93.1	93.4	93.4	93.5	93.5	93.5	93.6	93.6	93.6	93.6
>=500	9.7	80.2	86.1	90.0	92.3	93.0	93.9	94.4	94.4	94.6	94.6	94.6	94.7	94.7	94.7	94.7
>=400	9.7	80.3	86.4	90.4	93.0	93.7	95.1	95.9	96.0	96.2	96.2	96.2	96.3	96.3	96.3	96.3
>=300	9.7	80.5	86.6	90.7	93.3	94.1	95.8	96.6	96.7	97.1	97.3	97.3	97.3	97.3	97.3	97.3
>=200	9.7	80.5	86.6	90.8	93.6	94.4	96.5	97.5	97.6	98.1	98.3	98.4	98.7	98.7	98.7	98.7
>=100	9.7	80.5	86.6	90.8	93.6	94.4	96.5	97.5	97.6	98.2	98.5	98.7	99.1	99.1	99.4	99.5
>=0	9.7	80.5	86.6	90.8	93.6	94.4	96.5	97.5	97.6	98.2	98.5	98.7	99.1	99.1	99.5	100.0

TOTAL NO. OF OBS : 1277



## 2 - CEILING VS VISIBILITY

013750 : NORFOLK, VA  
PERIOD OF RECORD : 1945-1986  
CLASS : ALL WEATHER  
CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : DEC  
HOUR : 2200 LST

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)									
	>=10	>=6	>=5	>=4	>=3	>=2	1/2	>=1	1/2	>=1
UNLIMIT	8.1	50.2	52.6	53.9	54.7	55.0	55.4	55.6	55.6	55.6
>=20000	8.3	53.0	55.7	57.1	57.9	58.3	58.6	58.9	58.9	58.9
>=18000	8.4	53.3	55.9	57.3	58.1	58.5	58.9	59.1	59.1	59.1
>=16000	8.4	53.3	56.0	57.4	58.2	58.6	59.0	59.2	59.2	59.2
>=14000	8.5	53.5	56.2	57.6	58.4	58.8	59.2	59.4	59.4	59.4
>=12000	8.7	55.5	58.3	59.7	60.5	60.9	61.3	61.5	61.5	61.5
>=10000	8.7	59.9	62.7	64.3	65.2	65.6	66.0	66.2	66.2	66.2
>=9000	8.8	60.3	63.1	64.7	65.7	66.0	66.4	66.7	66.7	66.7
>=8000	9.2	65.0	68.2	70.2	71.2	71.6	72.0	72.3	72.3	72.4
>=7000	9.3	66.2	69.5	71.5	72.7	73.1	73.5	73.8	73.8	73.9
>=6000	9.5	67.2	70.6	72.6	73.8	74.1	74.6	74.8	74.8	75.0
>=5000	9.7	69.3	72.9	74.9	76.1	76.5	76.9	77.2	77.2	77.3
>=4500	9.7	69.8	73.4	75.4	76.6	76.9	77.4	77.6	77.6	77.8
>=4000	9.9	71.5	75.2	77.2	78.3	78.7	79.3	79.5	79.5	79.7
>=3500	9.9	72.6	76.3	78.3	79.5	79.9	80.5	80.7	80.7	80.8
>=3000	10.0	74.4	78.3	80.5	81.7	82.1	82.6	82.9	82.9	83.0
>=2500	10.0	75.1	79.0	81.4	82.6	83.0	83.6	83.8	83.8	84.0
>=2000	10.0	76.2	80.7	83.2	84.5	84.9	85.4	85.7	85.7	85.9
>=1800	10.0	76.6	81.0	83.6	84.9	85.3	85.8	86.1	86.1	86.3
>=1500	10.0	77.6	82.4	85.0	86.4	86.8	87.4	87.7	87.7	87.9
>=1200	10.0	78.1	83.1	85.8	87.2	87.6	88.2	88.6	88.6	88.8
>=1000	10.0	78.7	83.8	86.7	88.2	88.6	89.3	89.6	89.6	89.8
>=900	10.0	79.0	84.1	87.1	88.6	89.0	89.6	90.0	90.0	90.3
>=800	10.0	79.4	84.7	87.8	89.4	89.8	90.5	91.0	91.0	91.2
>=700	10.0	79.8	85.2	88.3	90.1	90.6	91.5	92.0	92.0	92.2
>=600	10.0	80.1	85.7	89.0	91.0	91.5	92.4	92.9	92.9	93.2
>=500	10.0	80.5	86.1	89.5	91.8	92.4	93.7	94.2	94.2	94.6
>=400	10.0	80.6	86.6	90.0	92.6	93.3	95.0	95.6	95.6	96.2
>=300	10.0	80.7	86.8	90.5	93.2	94.0	96.1	97.0	97.0	97.9
>=200	10.0	80.7	86.8	90.6	93.4	94.2	96.4	97.4	97.4	98.8
>=100	10.0	80.7	86.8	90.6	93.4	94.2	96.4	97.4	97.4	99.2
>=0	10.0	80.7	86.8	90.6	93.4	94.2	96.4	97.4	97.4	100.0

TOTAL NO. OF OBS : 1284



## 2 - CEILING VS VISIBILITY

013750 : NORFOLK, VA  
PERIOD OF RECORD : 1945-1986  
CLASS : ALL WEATHER  
CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : DEC  
HOUR : ALL

PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

## VISIBILITY (STATUTE MILES)

CEILING	>=10	>=6	>=5	>=4	>=3	>=2 1/2	>=2	>=1 1/2	>=1 1/4	>=1	>=3/4	>=5/8	>=1/2	>=5/16	>=1/4	>=0
UNLIMIT	8.2	48.2	50.6	52.3	53.2	53.4	53.9	54.1	54.1	54.1	54.2	54.2	54.2	54.2	54.2	54.3
>=20000	8.6	51.2	53.8	55.5	56.5	56.8	57.2	57.4	57.4	57.5	57.6	57.6	57.6	57.6	57.6	57.7
>=18000	8.6	51.3	53.9	55.6	56.6	56.9	57.4	57.6	57.6	57.7	57.7	57.7	57.8	57.8	57.8	57.9
>=16000	8.6	51.4	54.0	55.7	56.7	57.0	57.4	57.7	57.7	57.8	57.8	57.8	57.9	57.9	57.9	58.0
>=14000	8.8	51.9	54.5	56.2	57.2	57.5	58.0	58.2	58.2	58.3	58.4	58.4	58.4	58.4	58.4	58.5
>=12000	9.1	53.8	56.6	58.4	59.4	59.7	60.2	60.4	60.4	60.5	60.5	60.5	60.6	60.6	60.6	60.7
>=10000	9.2	57.4	60.3	62.2	63.3	63.6	64.1	64.3	64.4	64.4	64.5	64.5	64.5	64.5	64.6	64.7
>= 9000	9.3	57.8	60.7	62.6	63.8	64.1	64.6	64.8	64.8	64.9	64.9	64.9	65.0	65.0	65.0	65.1
>= 8000	9.4	62.1	65.5	67.6	69.0	69.3	69.8	70.1	70.1	70.2	70.3	70.3	70.3	70.3	70.4	70.4
>= 7000	9.5	63.3	66.8	69.1	70.4	70.8	71.3	71.6	71.6	71.7	71.8	71.8	71.8	71.8	71.8	71.9
>= 6000	9.6	64.1	67.6	70.0	71.4	71.8	72.3	72.6	72.6	72.7	72.8	72.8	72.8	72.8	72.8	72.9
>= 5000	9.7	65.5	69.2	71.7	73.2	73.5	74.1	74.4	74.4	74.5	74.6	74.6	74.6	74.6	74.6	74.7
>= 4500	9.8	66.4	70.2	72.7	74.2	74.5	75.2	75.4	75.4	75.5	75.6	75.6	75.6	75.6	75.7	75.8
>= 4000	9.9	68.4	72.4	75.0	76.5	76.9	77.6	77.8	77.9	78.0	78.0	78.0	78.1	78.1	78.1	78.2
>= 3500	10.0	69.3	73.4	76.0	77.6	78.0	78.6	78.9	78.9	79.0	79.1	79.1	79.1	79.1	79.2	79.2
>= 3000	10.1	71.2	75.5	78.3	80.0	80.4	81.1	81.4	81.4	81.6	81.6	81.6	81.7	81.7	81.7	81.8
>= 2500	10.1	72.3	76.8	79.7	81.4	81.9	82.6	82.9	82.9	83.0	83.1	83.1	83.1	83.2	83.2	83.3
>= 2000	10.2	73.4	78.1	81.2	83.1	83.6	84.4	84.7	84.7	84.8	84.9	84.9	85.0	85.0	85.0	85.1
>= 1800	10.2	73.7	78.4	81.5	83.5	84.0	84.8	85.1	85.1	85.2	85.3	85.3	85.4	85.4	85.4	85.5
>= 1500	10.2	74.4	79.3	82.6	84.6	85.2	86.0	86.3	86.3	86.5	86.6	86.6	86.6	86.6	86.7	86.8
>= 1200	10.2	74.9	80.0	83.4	85.5	86.0	86.9	87.3	87.3	87.4	87.5	87.5	87.6	87.6	87.6	87.7
>= 1000	10.2	75.6	80.9	84.6	86.8	87.4	88.3	88.7	88.7	88.9	89.0	89.0	89.1	89.1	89.1	89.2
>= 900	10.2	75.9	81.3	85.1	87.4	88.1	89.1	89.5	89.5	89.6	89.8	89.8	89.8	89.9	89.9	90.0
>= 800	10.2	76.2	81.8	85.7	88.2	89.0	90.1	90.5	90.5	90.8	90.9	90.9	91.0	91.0	91.1	91.2
>= 700	10.2	76.5	82.2	86.3	88.9	89.7	90.9	91.4	91.4	91.6	91.8	91.8	91.9	91.9	91.9	92.0
>= 600	10.2	76.7	82.5	86.7	89.6	90.4	91.7	92.2	92.3	92.6	92.7	92.7	92.8	92.8	92.9	93.0
>= 500	10.2	76.8	82.8	87.2	90.3	91.3	92.7	93.4	93.5	93.9	94.0	94.0	94.2	94.2	94.3	94.3
>= 400	10.2	76.9	83.0	87.6	91.0	92.0	93.8	94.7	94.8	95.3	95.5	95.6	95.7	95.7	95.8	95.9
>= 300	10.2	77.0	83.1	87.7	91.3	92.4	94.5	95.6	95.7	96.4	96.8	96.9	97.1	97.1	97.2	97.3
>= 200	10.2	77.0	83.1	87.7	91.4	92.6	94.9	96.1	96.3	97.1	97.6	97.8	98.1	98.2	98.4	98.5
>= 100	10.2	77.0	83.1	87.7	91.4	92.6	94.9	96.2	96.3	97.2	97.9	98.0	98.5	98.7	99.0	99.3
>= 0	10.2	77.0	83.1	87.7	91.4	92.6	94.9	96.2	96.3	97.2	97.9	98.1	98.5	98.7	99.1	100.0

TOTAL NO. OF OBS : 10183



# 2 - CEILING VS VISIBILITY

013750 : NORFOLK, VA  
 PERIOD OF RECORD : 1945-1986  
 CLASS : ALL WEATHER  
 CONDITION : NONE SPECIFIED

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
 MONTH : ANN  
 HOUR : ALL

## PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING	VISIBILITY (STATUTE MILES)															
	>=10	>=6	>=5	>=4	>=3	>=2 1/2	>=2	>=1 1/2	>=1	>=3/4	>=5/8	>=1/2	>=5/16	>=1/4	>=0	
UNLIMIT	9.0	48.0	51.5	53.6	54.8	55.1	55.4	55.6	55.7	55.7	55.7	55.7	55.7	55.8	55.8	55.8
>=20000	9.6	51.6	55.5	57.8	59.1	59.4	59.8	60.0	60.1	60.1	60.1	60.1	60.2	60.2	60.2	60.2
>=18000	9.6	51.7	55.6	57.9	59.3	59.6	60.0	60.1	60.2	60.3	60.3	60.3	60.3	60.3	60.4	60.4
>=16000	9.7	51.8	55.7	58.0	59.4	59.7	60.1	60.2	60.3	60.4	60.4	60.4	60.4	60.4	60.5	60.5
>=14000	9.8	52.4	56.3	58.6	60.0	60.4	60.7	60.9	61.0	61.0	61.0	61.0	61.1	61.1	61.1	61.1
>=12000	10.1	54.0	58.0	60.4	61.9	62.2	62.5	62.7	62.8	62.8	62.8	62.9	62.9	62.9	62.9	62.9
>=10000	10.5	57.5	61.9	64.5	66.0	66.4	66.8	67.0	67.1	67.1	67.1	67.2	67.2	67.2	67.2	67.2
>= 9000	10.5	57.8	62.3	64.9	66.4	66.8	67.2	67.4	67.5	67.5	67.5	67.5	67.6	67.6	67.6	67.6
>= 8000	10.8	61.7	66.6	69.4	71.0	71.4	71.9	72.1	72.1	72.2	72.2	72.2	72.3	72.3	72.3	72.3
>= 7000	10.9	62.7	67.7	70.5	72.3	72.6	73.1	73.3	73.4	73.4	73.4	73.5	73.5	73.5	73.5	73.5
>= 6000	11.0	63.4	68.4	71.3	73.1	73.5	74.0	74.2	74.3	74.3	74.3	74.4	74.4	74.4	74.4	74.4
>= 5000	11.2	64.7	69.9	72.9	74.7	75.1	75.6	75.8	75.9	75.9	75.9	76.0	76.0	76.0	76.0	76.0
>= 4500	11.2	65.2	70.5	73.5	75.4	75.8	76.2	76.4	76.5	76.6	76.6	76.6	76.6	76.7	76.7	76.7
>= 4000	11.4	67.0	72.4	75.6	77.4	77.9	78.4	78.6	78.7	78.7	78.7	78.8	78.8	78.8	78.9	78.9
>= 3500	11.5	67.8	73.4	76.6	78.5	78.9	79.4	79.6	79.7	79.8	79.8	79.9	79.9	79.9	79.9	79.9
>= 3000	11.7	69.9	75.8	79.2	81.2	81.7	82.3	82.5	82.6	82.7	82.7	82.7	82.7	82.7	82.8	82.8
>= 2500	11.9	71.1	77.2	80.7	82.8	83.3	83.9	84.1	84.2	84.3	84.3	84.4	84.4	84.4	84.4	84.4
>= 2000	12.0	72.7	78.9	82.6	84.9	85.4	86.0	86.3	86.4	86.5	86.5	86.5	86.5	86.6	86.6	86.6
>= 1800	12.0	72.9	79.3	83.0	85.2	85.8	86.4	86.7	86.8	86.9	86.9	86.9	86.9	86.9	87.0	87.0
>= 1500	12.1	74.0	80.6	84.4	86.8	87.4	88.1	88.4	88.5	88.6	88.6	88.6	88.6	88.7	88.7	88.7
>= 1200	12.2	74.7	81.5	85.6	88.1	88.7	89.5	89.7	89.9	90.0	90.0	90.0	90.0	90.0	90.1	90.1
>= 1000	12.2	75.5	82.5	86.7	89.4	90.1	90.9	91.2	91.3	91.4	91.5	91.5	91.6	91.6	91.6	91.6
>= 900	12.2	75.8	82.9	87.2	90.0	90.7	91.6	91.9	92.1	92.2	92.2	92.2	92.2	92.3	92.3	92.3
>= 800	12.2	76.2	83.5	88.0	90.9	91.7	92.7	93.1	93.3	93.4	93.4	93.4	93.4	93.5	93.5	93.5
>= 700	12.2	76.5	83.9	88.6	91.7	92.5	93.6	94.0	94.1	94.3	94.4	94.4	94.5	94.5	94.5	94.5
>= 600	12.2	76.9	84.2	89.0	92.3	93.2	94.4	94.8	94.9	95.1	95.2	95.3	95.3	95.4	95.4	95.4
>= 500	12.2	76.9	84.6	89.5	93.0	94.0	95.4	95.9	96.0	96.3	96.4	96.5	96.5	96.6	96.6	96.6
>= 400	12.2	76.9	84.7	89.8	93.4	94.5	96.0	96.7	96.7	97.1	97.3	97.4	97.4	97.5	97.5	97.5
>= 300	12.2	77.0	84.8	89.9	93.6	94.7	96.5	97.2	97.3	97.8	98.1	98.2	98.3	98.3	98.4	98.4
>= 200	12.2	77.0	84.8	89.9	93.6	94.8	96.6	97.5	97.6	98.2	98.5	98.6	98.8	99.0	99.1	99.1
>= 100	12.2	77.0	84.8	89.9	93.6	94.8	96.7	97.5	97.6	98.2	98.6	98.7	99.0	99.3	99.6	99.6
>= 0	12.2	77.0	84.8	89.9	93.6	94.8	96.7	97.5	97.6	98.3	98.7	99.1	99.2	99.4	100.0	100.0

TOTAL NO. OF OBS : 119629







LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : JAN PAGE 2

013750 NORFOLK, VA  
PERIOD OF RECORD : 1945-1986

[illegible]



## 3 - PSYCHROMETRIC SUMMARY

013750 NORFOLK, VA  
PERIOD OF RECORD : 1945-1986LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : FEB  
PAGE 1

DRY-BULB TEMP. (DEG F)	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	> 30	TOTAL			TOTAL OBS		
																		0.8-7 W.B.	DRY	BULB	WET	BULB	DEW PT.
>= 81	.0	.0	.0	.0	.0	.0*	.0	.0	.0*	.0	.0	.0*	.0	.0	.0	.0	.0	.0	1	1	0	0	0
>= 79	.0	.0	.0	.0	.0	.0*	.0	.0	.0*	.0	.0	.0*	.0	.0	.0	.0	.0	.0	5	5	0	0	0
>= 77	.0	.0	.0	.0*	.0	.0	.0*	.0	.0	.0	.0	.0*	.0	.0	.0	.0	.0	.0	5	5	0	0	0
>= 75	.0	.0	.0	.0*	.0*	.0*	.0*	.0*	.0*	.0	.0	.0*	.0	.0	.0	.0	.0	.0	14	14	0	0	0
>= 73	.0	.0	.0*	.0*	.0*	.0*	.1	.0*	.0*	.0*	.0*	.0*	.0	.0	.0	.0	.0	.0	16	16	0	0	0
>= 71	.0	.0	.0*	.0*	.1	.1	.1	.0*	.0*	.0*	.0*	.0*	.0	.0	.0	.0	.0	.0	35	35	3	0	0
>= 69	.0	.0*	.0*	.1	.1	.1	.1	.0*	.1	.0*	.0*	.0*	.0	.0	.0	.0	.0	.0	55	55	4	1	1
>= 67	.0	.0*	.1	.1	.1	.1	.1	.1	.0*	.0*	.0*	.0*	.0	.0	.0	.0	.0	.0	66	66	6	5	5
>= 65	.0	.1	.2	.2	.2	.1	.1	.1	.0*	.0*	.0*	.0*	.0	.0	.0	.0	.0	.0	114	114	13	8	8
>= 63	.0*	.3	.3	.2	.3	.2	.1	.1	.0*	.0*	.0*	.0*	.0	.0	.0	.0	.0	.0	158	158	47	11	11
>= 61	.1	.3	.3	.4	.3	.2	.2	.2	.1	.0*	.0*	.0*	.0	.0	.0	.0	.0	.0	187	187	92	40	40
>= 59	.1	.6	.5	.3	.2	.2	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	215	215	128	68	68
>= 57	.1	.5	.5	.3	.3	.2	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	237	237	182	107	107
>= 55	.2	.6	.4	.4	.4	.4	.3	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	257	257	197	137	137
>= 53	.2	.6	.5	.4	.3	.3	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	260	260	218	184	184
>= 51	.1	.5	.6	.6	.6	.5	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	317	317	221	175	175
>= 49	.3	1.0	.8	.8	.8	.5	.7	.2	.0*	.0	.0	.0	.0	.0	.0	.0	.0	.0	397	397	273	160	160
>= 47	.3	.9	.8	.9	.9	.5	.5	.2	.0*	.0	.0	.0	.0	.0	.0	.0	.0	.0	420	420	329	209	209
>= 45	.5	1.6	1.3	1.4	.9	.5	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	613	613	435	260	260
>= 43	.6	1.6	1.6	1.9	1.0	.4	.3	.0*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	687	687	524	315	315
>= 41	.7	1.6	2.2	1.9	1.2	.3	.3	.0*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	738	738	589	346	346
>= 39	.6	1.9	2.5	2.0	1.2	.3	.0*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	806	806	710	429	429
>= 37	.5	2.3	2.6	2.0	1.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	819	819	808	428	428
>= 35	.4	2.1	2.4	2.1	.8	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	750	750	821	503	503
>= 33	.3	1.9	1.9	1.7	.4	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	596	596	787	572	572
>= 31	.2	1.2	1.8	1.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	499	499	749	686	686
>= 29	.1	1.0	1.8	1.3	.9	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	424	424	623	623	623
>= 27	.1	.8	1.3	.9	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	289	289	516	580	580
>= 25	.0*	.4	1.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	187	187	399	545	545
>= 23	.0*	.3	.7	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	122	122	308	445	445
>= 21	.0	.2	.6	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	82	82	216	398	398
>= 19	.0*	.2	.3	.0*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	46	46	119	418	418
>= 17	.0	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	26	26	78	341	341
>= 15	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	13	41	288	288
>= 13	.0	.0*	.0*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	4	17	256	256
>= 11	.0	.0*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	1	7	235	235
>= 9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0	1	177	177
>= 7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0	0	131	131
>= 5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0	0	110	110
>= 3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0	0	89	89
>= 1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0	0	54	54
>= -1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0	0	50	50
>= -3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0	0	26	26
>= -5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0	0	13	13
>= -7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0	0	19	19
>= -9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0	0	11	11
>= -11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0	0	4	4
>= -13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0	0	3	3
>= -15	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0	0	0	0
>= -17	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0	0	0	0



013750 NORFOLK, VA  
PERIOD OF RECORD : 1945-1986

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : FEB PAGE 2

DRY-BULB TEMP. (DEG F)	% FREQ.										TEMPERATURE DEPRESSION (DEG F)										TOTAL		TOTAL OBS	
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	> 30	0-8.7 W-8.	DRY BULB	WET-DEW BULB PT.				
> -19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0	1				
TOTAL	5.6	22.8	27.2	22.2	11.7	5.4	2.9	1.2	.7	.3	.1	.0*	.0	.0	.0	.0	.0	9486	9461	9461				

ELEMENT(X)	SUM X	SUM X**2	MEAN	STD DEV	# OBS	4D - MEAN NO. OF HOURS WITH TEMP.				TOTAL		
						<=0 F	<=32 F	>=67 F	>=73 F			
28 - REL HUM	617236.	43939162.	65.2	19.698	9461	.0	120.4	14.0	2.9	.2	.0	672
15 - DRY BULB	399545.	17929245.	42.1	10.772	9486	.0	220.3	.9	.0	.0	.0	672
16 - WET BULB	355493.	14305281.	37.6	10.009	9461	1.9	390.9	.4	.0	.0	.0	672
17 - DEN PT.	285577.	10306199.	30.2	13.351	9461	9.0						







50 NORFOLK, VA  
00 OF RECORD : 1945-1986

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : MAR PAGE 2

[illegible]

L	4.8	16.4	22.9	21.6	14.5	9.0	5.2	2.7	1.6	.8	.3	.1	.U*	.0	.0	.0	10402	10407	10402
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UNIT(X)	SUM X	SUM X**2	MEAN	STD DEV	# OBS	Q - MEAN NO. OF HOURS WITH TEMP. >=93 F			TOTAL
						<=32 F	>=73 F	>=80 F	
REL HUM	66750.	46842776.	64.2	19.632	10402				744
DRY BULB	511002.	26318604.	49.1	10.861	10407			4.6	744
WET BULB	452390.	20665274.	43.5	9.759	10402			.2	744
DEW PT.	377667.	15375301.	36.3	12.646	10402			.1	744
						<=0 F	>=73 F <td>&gt;=80 F</td> <td></td>	>=80 F	
						0.0	29.7	20.6	0.0
						1.0	87.0	6.8	0.0
						0.6	299.7	.9	0.0



## 3 - PSYCHROMETRIC SUMMARY

3750 NORFOLK, VA  
RIOD OF RECORD : 1945-1986LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : APR  
PAGE 1

V-BULB EMP. (°F)	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	> 30	TOTAL		TOTAL OBS	
																		0.8- W.B.	DRY BULB	WET BULB	DEW PT.
91	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	5	0	0
89	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	12	0	0
87	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	26	26	0	0
85	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	45	45	0	0
83	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	64	64	0	0
81	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	99	99	0	0
79	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	104	104	0	0
77	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	179	179	0	0
75	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	207	207	2	0
73	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	256	256	4	2
71	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	279	279	30	1
69	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	355	355	88	10
67	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	467	467	192	41
65	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	533	533	353	108
63	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	593	593	487	217
61	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	618	618	571	334
59	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	758	758	618	421
57	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	733	733	611	459
55	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	837	837	670	517
53	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	819	819	711	599
51	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	744	744	780	589
49	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	699	699	850	614
47	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	561	561	886	544
45	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	443	443	875	575
43	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	300	300	759	600
41	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	164	164	576	632
39	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	91	91	443	552
37	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	49	49	264	565
35	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	22	22	169	536
33	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	6	74	542
31	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	5	31	417
29	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	3	17	381
27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0	10	283
25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0	3	191
23	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0	2	125
21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0	0	71
19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0	0	61
17	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0	0	31
15	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0	0	20
13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0	0	22
11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0	0	8
9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0	0	6
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0	0	0
5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0	0	4



013750 NORFOLK, VA  
PERIOD OF RECORD : 1945-1986

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : APR PAGE 2

DRY-BULB TEMP.	FREQ.	WET BULB TEMPERATURE	DEPRESSION (DEG F)	TOTAL	TOTAL OBS															
(DEG F)				D.R.Y. W.B.	WET BULB PT.															
0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	> 30	O.B./ W.B.	DRY BULB	WET BULB	DEP. PT.

TOTAL	2.6	13.7	16.8	18.0	15.5	12.1	8.1	5.6	3.5	2.1	1.1	.6	.2	.1	.0*	.0	10076	10076
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ELEMENTIX)		SUM X	SUM X**2	MEAN	STD DEV	# OBS
28	- REL HUM	631199.	43390529.	62.6	19.548	10076
15	- DRY BULB	588743.	35407591.	58.4	10.064	10080
16	- WET BULB	516827.	27240147.	51.3	8.516	10078
17	- DEN PT.	466774.	21063930.	44.3	11.772	10078

	<=0 F	<=32 F	>67 F	>73 F	>80 F	>93 F	TOTAL
<sup>40</sup> O - MEAN NO. OF HOURS WITH TEMP.	.0	.6	150.0	71.3	21.6	.0	720
	.3	4.8	22.6	.4	.0	.0	720
	.0	115.7	33.9	.1	.0	.0	720



## 3 - PSYCHROMETRIC SUMMARY

013750 NORFOLK, VA  
PERIOD OF RECORD : 1945-1986LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : MAY  
PAGE 1

DRY-BULB TEMP. (DEG F)	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26 27-28 29-30 > 30				TOTAL		TOTAL OBS	
																		D.B./ W.B.	DRY	WET	DEW
>= 95	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	2	0	0
>= 93	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	8	0	0
>= 91	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	33	33	0	0
>= 89	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	42	42	0	0
>= 87	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	96	96	0	0
>= 95	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	145	145	0	0
>= 93	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	171	171	0	0
>= 91	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	275	275	0	0
>= 89	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	313	313	5	0
>= 87	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	420	420	25	3
>= 85	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	540	540	41	10
>= 83	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	622	622	180	21
>= 81	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	775	775	378	104
>= 79	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	903	903	678	272
>= 77	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	912	912	828	525
>= 75	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	880	880	1033	662
>= 73	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	854	854	946	829
>= 71	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	846	846	939	784
>= 69	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	709	709	972	882
>= 67	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	611	611	917	836
>= 65	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	494	494	932	761
>= 63	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	330	330	764	757
>= 61	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	216	216	635	715
>= 59	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	117	117	424	653
>= 57	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	51	51	325	588
>= 55	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	17	17	216	502
>= 53	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	17	17	86	409
>= 51	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	10	45	316
>= 49	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	1	24	242
>= 47	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0	12	169
>= 45	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0	5	116
>= 43	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0	0	98
>= 41	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0	0	47
>= 39	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0	0	43
>= 37	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0	0	26
>= 35	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0	0	27
>= 33	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0	0	10
>= 31	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0	0	2
>= 29	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0	0	1
>= 27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0	0	0
>= 25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0	0	0
>= 23	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0	0	0
>= 21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0	0	0
>= 19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0	0	0
TOTAL	2.0	14.9	17.6	17.4	14.3	11.1	7.9	5.6	3.9	2.6	1.3	.6	.1	.0	.0	.0	.0	10410	10416	10410	10410

ELEMENT(X)	SUM X	SUM X**2	MEAN	STD DEV	# OBS	40 - MEAN NO. OF HOURS WITH TEMP.				TOTAL
						<=0 F	<=32 F	>=67 F	>=73 F	>=80 F
28 - REL NUM	704955.	51147187.	67.7	18.095	10410	.0	.0	.0	375.8	190.6
15 - DRY BULB	697204.	47480598.	66.9	8.833	10416	.0	.0	.0	67.0	.7
16 - WET BULB	623592.	37911466.	59.9	7.311	10410	.4	.4	.4	152.6	17.9
17 - DEW PT.	570634.	32176380.	54.8	9.281	10410	.0	11.1	.0	66.8	2.4



## 3 - PSYCHROMETRIC SUMMARY

Q13750 NORFOLK, VA  
PERIOD OF RECORD : 1945-1986

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : JUN  
PAGE 1

DRY-BULB TEMP. (DEG F)	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	> 30	TOTAL D.B./ W.B.	TOTAL OBS DRY BULB	WEI BULB	DEW PT.
>= 99	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
>= 97	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
>= 95	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
>= 93	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
>= 91	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
>= 89	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
>= 87	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
>= 85	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
>= 83	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
>= 81	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
>= 79	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
>= 77	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
>= 75	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
>= 73	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
>= 71	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
>= 69	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
>= 67	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
>= 65	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
>= 63	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
>= 61	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
>= 59	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
>= 57	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
>= 55	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
>= 53	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
>= 51	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
>= 49	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
>= 47	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
>= 45	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
>= 43	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
>= 41	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
>= 39	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
>= 37	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
>= 35	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
>= 33	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
>= 31	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOTAL	1.8	11.5	18.5	18.3	14.7	11.3	9.0	6.6	4.1	2.6	1.2	.4	.1	.0	.0	.0	.0	10075	10078	10076	10077

ELEMENT(X)	SUM X	SUM X**2	MEAN STD DEV	# OBS	<=0 F	<=32 F	>=67 F	>=73 F	>=80 F	>=93 F	TOTAL
28 - REL HUM	702790.	51581058.	69.7 15.947	10076	.0	.0	624.6	437.3	192.5	10.9	720
15 - DRY BULB	755464.	57225858.	75.0 7.684	10078	.3	.3	425.5	166.6	5.9	.0	720
16 - WET BULB	681460.	46460704.	67.6 6.078	10076	.0	.0	298.9	62.9	1.0	.0	720
17 - DEW PT.	640657.	41290641.	63.6 7.456	10077	.0	.0					



Q13750 NORFOLK, VA  
PERIOD OF RECORD : 1945-1986

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : JUL  
PAGE 1

[illegible]

ELEMENT(X)	SUM X	SUM X**2	MEAN	STD DEV	# OBS	<=0 F	<=32 F	>=67 F	>=73 F	>=80 F	HOURS WITH TEMP.	TOTAL
28 - REL HUM	752681.	56771053.	72.4	14.911	10403	.	.0	736.0	639.4	301.2	19.4	744
15 - DRY BULB	820713.	65131343.	78.9	6.266	10407	.	.0	638.8	370.7	19.2	.0	744
16 - WET BULB	747481.	53928275.	71.9	4.598	10403	.	.0	521.5	191.4	3.1	.0	744
17 - DEW PT.	712857.	49174879.	68.5	5.725	10406	.	.0					



## 3 - PSYCHROMETRIC SUMMARY

D13750 NORFOLK, VA  
PERIOD OF RECORD : 1945-1986

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : AUG  
PAGE 1

DRY-BULB TEMP. (DEG F)	Q	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	> 30	TOTAL D.B./ W.B.	TOTAL OBS DRY BULB	TOTAL OBS WET BULB	DEW PT.
>=101	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	3	0
>= 99	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	2	0
>= 97	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	16	16	0
>= 95	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	55	55	0
>= 93	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	119	119	0
>= 91	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	167	167	0
>= 89	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	243	243	0
>= 87	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	420	420	0
>= 85	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	548	548	0
>= 83	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	676	676	15
>= 81	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	867	867	75
>= 79	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1174	1174	340
>= 77	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1451	1451	949
>= 75	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1621	1621	1608
>= 73	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1298	1298	1870
>= 71	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	818	818	1620
>= 69	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	478	478	1347
>= 67	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	243	243	868
>= 65	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	117	117	671
>= 63	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	51	51	457
>= 61	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	19	19	287
>= 59	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	11	181
>= 57	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	3	66
>= 55	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	2	22
>= 53	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	2	14
>= 51	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0	8
>= 49	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0	6
>= 47	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0	57
>= 45	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0	30
>= 43	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0	15
>= 41	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0	9
>= 39	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0	6
>= 37	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0	2
TOTAL	1.7	12.6	22.9	18.7	15.1	11.1	7.6	5.4	2.6	1.5	.6	.1	.U*	.U	.U	.U	.U	.U	10404	10415	10414

ELEMENT(X)	SUM X	SUM X**2	MEAN STD DEV	# OBS	40 - MEAN NO. OF HOURS WITH TEMP.	TOTAL
28 - REL HUM	764229.	58222279.	73.4	14.299	10412	
15 - DRY BULB	812249.	63736647.	78.0	6.125	10415	744
16 - WET BULB	742793.	53283885.	71.4	4.924	10404	744
17 - DEW PT.	710039.	48799751.	68.2	6.108	10414	744



Q13750 NORFOLK, VA  
PERIOD OF RECORD : 1945-1986

013750 NORFOLK, VA  
PERIOD OF RECORD : 1945-1986

DRY-BULB TEMP. (DEG F)		1-2	3-4	5-6	7-8	8 FREQ.	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	> 30	TOTAL D-8./ W-8.	TOTAL OBS WET BULB PT.
>= 99	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
>= 97	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0
>= 95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0
>= 93	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	37	0
>= 91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	63	0
>= 89	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	102	0
>= 87	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	147	0
>= 85	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	228	0
>= 83	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	325	0
>= 81	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	455	6
>= 79	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	595	49
>= 77	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	890	29
>= 75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1160	665
>= 73	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1253	1038
>= 71	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1140	979
>= 69	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1115	1128
>= 67	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	866	984
>= 65	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	620	1056
>= 63	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	437	798
>= 61	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	285	819
>= 59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	165	705
>= 57	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	93	474
>= 55	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	56	318
>= 53	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	230
>= 51	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	159
>= 49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	70
>= 47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	39
>= 45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
>= 43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
>= 41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>= 39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>= 37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	48
>= 35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18
>= 33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
>= 31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
>= 29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
>= 27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
TOTAL	1.8	13.3	21.1	19.2	15.5	11.8	8.6	4.7	2.5	1.1	0.4	1	1	0	0	0	0	0	10076	10077

ELEMENT(X)	SUM X	SUM X**2	MEAN	STD DEV	# OBS	40 - MEAN NO. OF HOURS WITH TEMP.			TOTAL	
28 - REL HUM	720753.	53950701.	71.5	15.415	10076	<=0 F	>=67 F	>=73 F	>=80 F	>=93 F
15 - DRY BULB	735805.	54214191.	73.0	6.990	10076	0	0	599.5	376.5	120.4
16 - WET BULB	669511.	44921415.	66.4	6.571	10076	0	0	380.2	143.4	2.1
7 - DEW PT.	630631.	40175395.	62.6	8.393	10077	0	0	283.7	61.7	0.2
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## 3 - PSYCHROMETRIC SUMMARY

Q13750 NORFOLK, VA  
PERIOD OF RECORD : 1945-1986LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : OCT  
PAGE 1

DRY-BULB TEMP. (DEG F)	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	> 30	TOTAL D.B./ W.B.	TOTAL OBS DRY BULB	WEI PT.	DEM PT.
>= 93	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0*	.0	.0	.0	.0	.0	.0	1	1	0	0
>= 91	.0	.0	.0	.0	.0	.0	.0	.0	.0*	.0*	.0	.0	.0	.0	.0	.0	.0	3	3	0	0
>= 89	.0	.0	.0	.0	.0	.0	.0	.0	.0*	.0*	.0	.0	.0	.0	.0	.0	.0	5	5	0	0
>= 87	.0	.0	.0	.0	.0	.0*	.0*	.0*	.0*	.0*	.0*	.0	.0	.0	.0	.0	.0	16	16	0	0
>= 85	.0	.0	.0	.0	.0	.0*	.0*	.0*	.0*	.0*	.0*	.0	.0	.0	.0	.0	.0	30	30	0	0
>= 83	.0	.0	.0	.0*	.0*	.0*	.0*	.0*	.0*	.0*	.0*	.0	.0	.0	.0	.0	.0	44	44	0	0
>= 81	.0	.0	.0	.0*	.0*	.0*	.0*	.0*	.0*	.0*	.0*	.0	.0	.0	.0	.0	.0	81	81	0	0
>= 79	.0	.0	.0	.0*	.0*	.0*	.0*	.0*	.0*	.0*	.0*	.0	.0	.0	.0	.0	.0	105	105	0	0
>= 77	.0*	.0*	.0*	.0*	.0*	.0*	.0*	.0*	.0*	.0*	.0*	.0	.0	.0	.0	.0	.0	192	192	8	2
>= 75	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0*	.0	.0	.0	.0	.0	.0	283	283	24	3
>= 73	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0*	.0	.0	.0	.0	.0	.0	403	403	103	39
>= 71	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0*	.0	.0	.0	.0	.0	.0	522	522	224	102
>= 69	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0*	.0	.0	.0	.0	.0	.0	800	800	417	238
>= 67	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0*	.0	.0	.0	.0	.0	.0	894	894	647	438
>= 65	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1048	1048	714	506
>= 63	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1097	1097	966	718
>= 61	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	989	989	931	735
>= 59	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	956	956	905	725
>= 57	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	742	742	848	726
>= 55	.0*	.0*	.0*	.0*	.0*	.0*	.0*	.0*	.0*	.0*	.0*	.0	.0	.0	.0	.0	.0	647	647	807	621
>= 53	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	478	478	787	660
>= 51	.0*	.0*	.0*	.0*	.0*	.0*	.0*	.0*	.0*	.0*	.0*	.0	.0	.0	.0	.0	.0	359	359	802	655
>= 49	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	259	259	641	607
>= 47	.0*	.0*	.0*	.0*	.0*	.0*	.0*	.0*	.0*	.0*	.0*	.0	.0	.0	.0	.0	.0	164	164	577	566
>= 45	.0*	.0*	.0*	.0*	.0*	.0*	.0*	.0*	.0*	.0*	.0*	.0	.0	.0	.0	.0	.0	128	128	394	525
>= 43	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	69	69	248	504
>= 41	.0	.0*	.0*	.0*	.0*	.0*	.0*	.0*	.0*	.0*	.0*	.0	.0	.0	.0	.0	.0	44	44	166	457
>= 39	.0*	.0*	.0*	.0*	.0*	.0*	.0*	.0*	.0*	.0*	.0*	.0	.0	.0	.0	.0	.0	24	24	123	381
>= 37	.0*	.0*	.0*	.0*	.0*	.0*	.0*	.0*	.0*	.0*	.0*	.0	.0	.0	.0	.0	.0	19	19	71	280
>= 35	.0	.0	.0*	.0*	.0*	.0*	.0*	.0*	.0*	.0*	.0*	.0	.0	.0	.0	.0	.0	4	4	58	243
>= 33	.0	.0	.0	.0*	.0*	.0*	.0*	.0*	.0*	.0*	.0*	.0	.0	.0	.0	.0	.0	1	1	28	180
>= 31	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0	14	134
>= 29	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0	3	108
>= 27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0	1	68
>= 25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0	0	54
>= 23	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0	0	45
>= 21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0	0	27
>= 19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0	0	29
>= 17	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0	0	16
>= 15	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0	0	5
>= 13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0	0	3
>= 11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0	0	2
>= 9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0	0	1
>= 7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0	0	1
>= 5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0	0	0
>= 3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0	0	2
>= 1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0	0	1



# 3 - PSYCHROMETRIC SUMMARY

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
 MONTH : OCT  
 PAGE 2

011750 MOREOLK. VA  
 PERIOD OF RECORD : 1945-1986

DRY-BULB 0 1-2 3-4 5-6 7-8 9-10 11-12 13-14 15-16 17-18 19-20 21-22 23-24 25-26 27-28 29-30 > 30 TOTAL D.B./ W.B. BULB WET DEW  
 TEMP. (DEG F)

TOTAL 3.3 17.8 21.4 19.4 15.8 10.8 5.8 3.3 1.6 .6 .2 .0\* .0 .0 .0 .0 .0 10407 10407 10407 10407

ELEMENT(X) SUM X SUM X\*\*2 MEAN STD DEV # OBS

28 - REL HUM 732838. 54728524. 70.4 17.326 10407  
 15 - DRY BULB 654715. 41884133. 62.9 8.174 10407  
 16 - WET BULB 594464. 34670462. 57.1 8.282 10407  
 17 - DEW PT. 544534. 29747540. 52.3 10.984 10407

<=0 F <=32 F >=67 F >=73 F >=80 F >=93 F TOTAL  
 .0 .0 .0 .0 .0 .0 .1 744  
 .6 1.9 101.7 9.7 .0 .0 744  
 .0 35.5 58.8 3.1 .0 .0 744

40 - MEAN NO. OF HOURS WITH TEMP.  
 >=67 F >=73 F >=80 F >=93 F TOTAL



013750 NORFOLK, VA  
PERIOD OF RECORD : 1945-1986

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : NOV PAGE 1

[illegible]



# 3 - PSYCHROMETRIC SUMMARY

013750 NORFOLK, VA  
PERIOD OF RECORD : 1945-1986

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : NOV  
PAGE 2

		% FREQ. WET BULB TEMPERATURE DEPRESSION (DEG F)										TOTAL		TOTAL OBS															
		0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	> 30	D.B./	DRY	WET	DEW							
																			W.B.	BULB	BULB	PT.							
DRY-BULB																													
TEMP.																													
(DEG F)																													
TOTAL	3.7	19.0	22.9	21.6	16.0	9.1	4.4	1.9	1.1	.2	.1	.0*	.0	.0	.0	.0	.0	.0	10070	10074	10070	10072							
ELEMENT(X)		SUM X	SUM X**2	MEAN	STD DEV	#	OBS	40 - MEAN NO. OF HOURS WITH TEMP.																					
								<=0 F										>=32 F		>=67 F		>=73 F		>=80 F		>=93 F		TOTAL	
28 - REL HUM		679459.	49255773.	67.5	18.403	10070							.0		6.9	65.3	19.9		1.9		.0	.0	720						
15 - DRY BULB		535027.	29354823.	53.1	9.659	10074							.7		32.7	17.0	.4		.0		.0	.0	720						
16 - WET BULB		481257.	23926983.	47.8	9.596	10070							.J		183.1	6.9	.0		.0		.0	.0	720						
17 - DEW PT.		420140.	19142756.	41.7	12.672	10072																							

ELEMENT(X)      40 - MEAN NO. OF HOURS WITH TEMP.  
 <=0 F      <=32 F      >=67 F      >=73 F      >=80 F      >=93 F      TOTAL

		MEAN STD DEV										# OBS		
		28 - REL HUM	15 - DRY BULB	16 - WET BULB	17 - DEW PT.	67.5	18.403	53.1	9.659	47.8	9.596	41.7	12.672	10070
28 - REL HUM		679459.	535027.	481257.	420140.	67.5	18.403	53.1	9.659	47.8	9.596	41.7	12.672	10070
15 - DRY BULB		49255773.	29354823.	23926983.	19142756.	67.5	18.403	53.1	9.659	47.8	9.596	41.7	12.672	10070
16 - WET BULB		679459.	535027.	481257.	420140.	67.5	18.403	53.1	9.659	47.8	9.596	41.7	12.672	10070
17 - DEW PT.		49255773.	29354823.	23926983.	19142756.	67.5	18.403	53.1	9.659	47.8	9.596	41.7	12.672	10070

		MEAN STD DEV										# OBS		
		28 - REL HUM	15 - DRY BULB	16 - WET BULB	17 - DEW PT.	67.5	18.403	53.1	9.659	47.8	9.596	41.7	12.672	10070
28 - REL HUM		679459.	535027.	481257.	420140.	67.5	18.403	53.1	9.659	47.8	9.596	41.7	12.672	10070
15 - DRY BULB		49255773.	29354823.	23926983.	19142756.	67.5	18.403	53.1	9.659	47.8	9.596	41.7	12.672	10070
16 - WET BULB		679459.	535027.	481257.	420140.	67.5	18.403	53.1	9.659	47.8	9.596	41.7	12.672	10070
17 - DEW PT.		49255773.	29354823.	23926983.	19142756.	67.5	18.403	53.1	9.659	47.8	9.596	41.7	12.672	10070



### 3 - PSYCHROMETRIC SUMMARY

Q13750 NORFOLK, VA  
PERIOD OF RECORD : 1945-1986

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : DEC  
PAGE 1

[illegible]



3 - PSYCHROMETRIC SUMMARY

013750 NORFOLK, VA  
PERIOD OF RECORD : 1945-1986

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
PAGE 2 MONTH : DEC

DRY-BULB 0 1-2 3-4 5-6 7-8 9-10 11-12 13-14 15-16 17-18 19-20 21-22 23-24 25-26 27-28 29-30 > 30 TOTAL D.B./ W.B. BULB WET DEW  
(DEG F) (DEG F)

TOTAL 5.1 21.4 27.7 24.9 12.5 5.4 2.0 .7 .2 .0\* .0 .0\* .0 .0 .0 .0 .0 10394 10414 10396

ELEMENT(X) SUM X SUM X\*\*2 MEAN STD DEV # OBS  
28 - REL HUM 693464. 49885464. 66.7 18.661 10394  
15 - DRY BULB 460247. 21468445. 44.2 10.407 10414  
16 - WET BULB 413320. 17534806. 39.8 10.283 10394  
17 - DEW PT. 342880. 13271758. 33.0 13.742 10396

<=0 F <=32 F <=67 F >=73 F >=80 F >=93 F TOTAL  
0 93.1 18.8 2.1 .0 .0 744  
1.6 187.7 2.6 .0 .0 .0 744  
5.6 379.7 1.0 .0 .0 .0 744

40 - MEAN NO. OF HOURS WITH TEMP.



# 3 - PSYCHROMETRIC SUMMARY

13750 NORFOLK, VA  
PERIOD OF RECORD : 1945-1986

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : ANN  
PAGE 1

RY-BULB TEMP. DEG F)	Q	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	> 30	TOTAL 0.8./ W.B.	TOTAL OBS DRY BULB	WET BULB	DEW PT.
=101	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	3	0	0
= 99	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	10	0	0
= 97	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	61	61	0	0
= 95	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	193	193	0	0
= 93	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	413	413	0	0
= 91	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	673	673	0	0
= 89	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	963	963	0	0
= 87	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1538	1538	0	0
= 85	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1990	1990	5	1
= 83	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2463	2463	35	5
= 81	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3330	3330	201	23
= 79	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4297	4297	906	173
= 77	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5572	5572	2640	583
= 75	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6620	6620	4775	1910
= 73	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6353	6353	6217	4429
= 71	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5740	5740	6356	5720
= 69	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5479	5479	6270	5969
= 67	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4997	4997	5755	5723
= 65	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4795	4795	6016	4927
= 63	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4668	4668	5736	5150
= 61	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4466	4466	5599	5062
= 59	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4463	4463	5197	5014
= 57	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4079	4079	4698	5014
= 55	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4010	4010	4597	4568
= 53	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3746	3746	4209	4510
= 51	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3793	3793	4166	4130
= 49	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3950	3950	4105	3845
= 47	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4013	4013	4295	3674
= 45	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4362	4362	4547	3769
= 43	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4057	4057	4278	3754
= 41	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3920	3920	4349	3796
= 39	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3523	3523	4515	3619
= 37	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3093	3093	4237	3563
= 35	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2710	2710	3986	3595
= 33	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2140	2140	3461	3623
= 31	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1778	1778	2982	3609
= 29	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1396	1396	2299	3541
= 27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1017	1017	1789	3029
= 25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	651	651	1399	2837
= 23	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	446	446	1096	2460
= 21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	230	230	698	2088
= 19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	145	145	423	1802
= 17	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	90	90	230	1472
= 15	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	47	47	124	1142
= 13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	33	33	67	972
= 11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	11	50	810
= 9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	8	14	645
= 7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	1	11	535



# 3 - PSYCHROMETRIC SUMMARY

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : ANN  
PAGE 2

213750 NORFOLK, VA  
PERIOD OF RECORD : 1945-1986

DRY-BULB TEMP. (DEG F)	0	1-2	3-4	5-6	7-8	% FREQ.	WET BULB TEMPERATURE DEPRESSION (DEG F)										TOTAL D.B./ W.B.	TOTAL OBS			
							9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28		29-30	> 30	DRY BULB	WET BULB
>= 1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	2	157
>= -1	.0	.0*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	1	130
>= -3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	1	85
>= -5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0	60
>= -7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0	46
>= -9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0	26
>= -11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0	14
>= -13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0	16
>= -15	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0	9
>= -17	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0	6
>= -19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0	3
>= -21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0	1
TOTAL	3.3	16.6	22.6	20.2	14.1	9.4	6.0	3.7	2.1	1.2	.5	.2	.0*	.0*	.0*	.0	.0	.0	122430	122341	122364

ELEMENT(X)	SUM X	SUM X**2	MEAN	STD DEV	# OBS	MEAN NO. OF HOURS WITH TEMP.					TOTAL
28 - REL HUM	8337881.	607587529.	68.1	17.940	122349	<=0 F	<=32 F	>=67 F	>=73 F	>=80 F	>=93 F
15 - DRY BULB	7384667.	478238373.	60.3	16.371	122430	.1	421.1	3629.1	2468.4	993.7	48.7
16 - WET BULB	6649713.	389549321.	54.4	15.159	122341	9.5	810.6	2374.4	1058.2	41.6	.0
17 - DEW PT.	5980577.	331283501.	48.9	17.848	122364	28.3	1865.3	1756.5	510.0	7.4	.0

NOTES :  
\* = PERCENT < .05



4 - PERCENTAGE FREQUENCY OF AIR TEMPERATURE  
VERSUS  
WIND DIRECTION  
(FROM HOURLY OBSERVATIONS)

013750 NORFOLK, VA  
PERIOD OF RECORD : 1945-1986

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : JAN  
PAGE 1

TEMP. (DEG F)	NNW & N	NNE & NE	ENE & E	ESE & SE	WIND DIRECTION SSE & S	SSW & SW	WSW & W	NNW & NW	CALM	TOTAL FREQ.	% OF TOTAL
>= 77	.0	.0	.0	.0	.0	100.0	.0	.0	.0	2	.0*
>= 72	.0	.0	.0	.0	12.8	69.2	17.9	.0	.0	39	.4
>= 67	.0	.0	.0	.0	16.7	64.2	17.5	1.7	.0	120	1.2
>= 62	.0	.0	.3	1.1	31.3	44.7	18.2	3.7	.0	351	3.5
>= 57	1.1	1.2	1.6	4.3	22.3	45.5	18.9	3.9	1.2	561	5.5
>= 52	2.8	3.1	4.4	6.5	18.7	35.6	20.6	6.2	2.3	616	6.1
>= 47	8.5	11.9	8.1	5.2	10.2	23.5	19.1	8.8	4.6	904	8.9
>= 42	13.5	20.1	11.0	3.1	6.4	15.0	15.1	9.0	6.8	1770	17.4
>= 37	20.1	20.9	6.5	3.0	6.1	11.2	13.8	11.5	7.0	2028	20.0
>= 32	24.0	18.2	4.8	2.6	5.4	9.4	12.5	14.4	8.6	1761	17.3
>= 27	33.6	15.5	3.0	1.8	5.8	5.8	10.5	13.8	10.1	1216	12.0
>= 22	33.3	12.1	1.6	1.4	5.0	6.7	12.6	18.7	8.6	556	5.5
>= 17	37.1	7.2	.0	.6	2.4	6.0	19.2	21.0	6.6	167	1.6
>= 12	18.5	1.9	.0	.0	.0	3.7	42.6	33.3	.0	54	.5
>= 7	6.3	.0	.0	.0	.0	.0	56.3	37.5	.0	16	.2
>= 2	.0	.0	.0	.0	.0	.0	100.0	.0	.0	2	.0*
>= -3	.0	.0	.0	.0	.0	.0	100.0	.0	.0	2	.0*
TOTALS	18.1	14.8	5.6	3.0	8.9	17.0	15.1	11.1	6.5	10165	100.0

NOTES :  
\* = PERCENT < .05



4 - PERCENTAGE FREQUENCY OF AIR TEMPERATURE  
VERSUS  
WIND DIRECTION  
(FROM HOURLY OBSERVATIONS)

013750 NORFOLK, VA  
PERIOD OF RECORD : 1945-1986

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : FEB  
PAGE 1

TEMP. (DEG F)	MNW & N	MNE & NE	ENE & E	ESE & SE	WIND DIRECTION		WSW & W	WNW & NW	CALM	TOTAL FREQ.	% OF TOTAL
>= 82	.0	.0	.0	.0	100.0	SSE & S	.0	.0	.0	1	.0*
>= 77	.0	10.0	.0	.0	30.0	SSW & SW	10.0	.0	.0	10	.1
>= 72	2.3	.0	.0	2.3	11.6	SSW & SW	30.2	4.7	.0	43	.5
>= 67	.0	.7	2.1	.7	22.4	SSW & SW	25.9	2.8	.7	143	1.5
>= 62	.8	1.1	.5	1.6	26.9	SSW & SW	19.3	3.8	1.9	368	3.9
>= 57	.7	.9	1.8	4.1	23.2	SSW & SW	19.9	5.5	1.7	543	5.7
>= 52	4.4	5.6	3.2	6.9	22.2	SSW & SW	21.9	7.5	2.6	684	7.2
>= 47	9.7	10.6	9.6	6.5	13.4	SSW & SW	16.4	8.8	3.8	968	10.2
>= 42	13.9	19.0	16.5	5.5	7.0	SSW & SW	12.6	9.3	4.6	1713	18.1
>= 37	19.5	25.6	11.4	4.3	6.2	SSW & SW	9.9	11.2	4.3	1958	20.7
>= 32	26.5	20.7	6.6	3.4	4.9	SSW & SW	10.4	12.7	8.3	1658	17.5
>= 27	32.8	14.2	3.2	2.6	5.3	SSW & SW	11.8	15.2	10.4	908	9.6
>= 22	33.4	15.9	1.4	1.9	5.8	SSW & SW	7.2	20.6	11.4	359	3.8
>= 17	30.2	6.6	.0	1.9	2.8	SSW & SW	13.2	29.2	13.2	106	1.1
>= 12	16.7	5.6	.0	.0	5.6	SSW & SW	33.3	27.8	11.1	18	.2
TOTALS	17.3	16.0	8.2	4.3	10.0	SSW & SW	13.4	10.8	5.5	9480	100.0

NOTES :  
\* = PERCENT < .05



4 - PERCENTAGE FREQUENCY OF AIR TEMPERATURE  
VERSUS  
WIND DIRECTION  
(FROM HOURLY OBSERVATIONS)

013750 NORFOLK, VA  
PERIOD OF RECORD : 1945-1986

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : MAR  
PAGE 1

TEMP. (DEG F)	NNW %	NNE %	ENE %	ESE %	WIND DIRECTION SSE %	SSW %	WSW %	NNW %	CALM	TOTAL FREQ.	% OF TOTAL
>= 87	.0	.0	.0	.0	.0	.0	100.0	.0	.0	4	.0*
>= 82	.0	.0	.0	.0	6.5	48.4	38.7	6.5	.0	31	.3
>= 77	1.0	.0	1.0	1.0	4.1	50.0	37.8	4.1	1.0	98	.9
>= 72	.0	.4	2.2	2.6	13.9	51.5	25.1	3.0	1.3	231	2.2
>= 67	.9	2.0	1.6	1.6	24.6	49.2	16.9	2.7	.5	443	4.3
>= 62	1.8	2.8	2.8	3.6	29.2	39.2	15.7	3.6	1.4	722	6.9
>= 57	3.8	4.0	6.8	8.5	22.7	30.7	15.3	6.3	1.8	939	9.0
>= 52	7.5	10.9	10.2	10.3	14.6	17.7	15.1	9.1	4.7	1222	11.7
>= 47	12.2	18.7	17.4	7.9	8.9	8.4	11.2	10.8	4.5	1840	17.7
>= 42	15.3	20.3	18.0	6.4	6.7	6.0	9.1	12.9	5.2	2345	22.5
>= 37	21.9	17.9	11.9	6.5	5.6	5.0	11.0	13.2	7.1	1472	14.1
>= 32	28.7	15.4	6.5	3.2	6.7	5.7	8.9	17.2	7.6	749	7.2
>= 27	31.9	14.5	5.6	3.2	4.4	2.4	7.3	21.0	9.7	248	2.4
>= 22	49.1	20.0	5.5	1.8	.0	.0	3.6	18.2	1.8	55	.5
>= 17	28.6	42.9	28.6	.0	.0	.0	.0	.0	.0	7	.1
TOTALS	13.2	13.9	11.6	6.5	11.7	15.4	12.5	10.6	4.6	10406	100.0

NOTES : \* = PERCENT < .05



4 - PERCENTAGE FREQUENCY OF AIR TEMPERATURE  
VERSUS  
WIND DIRECTION  
(FROM HOURLY OBSERVATIONS)

013750 NORFOLK, VA  
PERIOD OF RECORD : 1945-1986

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : APR  
PAGE 1

TEMP. (DEG F)	NNW & N	NNE & E	ENE & E	ESE & E	WIND DIRECTION		WSW & W	WNW & W	CALM	TOTAL FREQ.	% OF TOTAL
>= 92	.0	.0	50.0	.0	.0	SSW & S	50.0	.0	.0	2	.0*
>= 87	4.9	2.4	2.4	.0	2.4	SSW & S	24.4	7.3	.0	41	.4
>= 82	3.1	1.2	3.7	2.5	4.9	SSW & S	34.0	6.2	1.2	162	1.6
>= 77	1.5	1.5	2.7	3.9	13.0	SSW & S	23.6	5.5	.9	330	3.3
>= 72	2.3	4.3	6.5	3.8	18.7	SSW & S	21.5	3.7	.7	599	5.9
>= 67	3.1	4.6	6.3	5.5	19.4	SSW & S	16.7	6.1	1.5	965	9.6
>= 62	5.6	8.3	8.3	7.5	20.1	SSW & S	13.7	5.2	3.4	1487	14.8
>= 57	9.0	14.2	13.6	7.7	16.3	SSW & S	10.6	7.8	4.2	1750	17.4
>= 52	12.0	17.8	17.3	9.6	10.9	SSW & S	9.3	8.6	5.1	2075	20.6
>= 47	15.6	17.5	17.4	7.3	9.4	SSW & S	8.9	11.2	5.9	1585	15.7
>= 42	18.7	13.2	11.3	6.3	9.7	SSW & S	9.0	14.2	10.5	844	8.4
>= 37	29.1	3.0	4.4	9.4	11.3	SSW & S	5.4	13.3	19.2	203	2.0
>= 32	36.7	10.0	.0	3.3	6.7	SSW & S	.0	30.0	13.3	30	.3
>= 27	.0	.0	.0	.0	33.3	SSW & S	.0	50.0	16.7	6	.1
TOTALS	10.1	12.1	12.1	7.2	14.1	SSW & S	12.4	8.3	4.8	10079	100.0

NOTES :  
\* = PERCENT < .05



4 - PERCENTAGE FREQUENCY OF AIR TEMPERATURE  
VERSUS  
WIND DIRECTION  
(FROM HOURLY OBSERVATIONS)

013750 NORFOLK, VA  
PERIOD OF RECORD : 1945-1986

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : MAY  
PAGE 1

TEMP. (DEG F)	NNW %	NNE %	ENE %	ESE %	WIND DIRECTION SSE %	SSW %	WSW %	WNW %	CALM	TOTAL FREQ.	% OF TOTAL
>= 92	.0	.0	4.5	.0	.0	40.9	40.9	4.5	9.1	22	.2
>= 87	4.4	3.8	4.4	3.1	4.4	44.7	28.3	6.9	.0	159	1.5
>= 82	3.6	5.7	5.7	3.6	13.0	37.7	25.3	4.0	1.3	470	4.5
>= 77	4.7	4.6	9.1	4.2	17.4	36.7	18.7	3.0	1.5	855	8.2
>= 72	3.9	8.9	10.6	7.5	19.4	29.3	14.8	4.1	1.6	1552	14.9
>= 67	5.7	10.8	14.0	8.0	18.5	24.4	10.7	5.0	2.9	2201	21.1
>= 62	8.3	17.1	17.8	9.1	15.2	13.4	8.3	5.2	5.4	2193	21.1
>= 57	11.2	19.5	19.6	8.0	11.8	9.8	8.1	5.1	6.8	1709	16.4
>= 52	13.4	21.4	17.8	8.6	11.1	6.7	6.4	5.8	8.9	956	9.2
>= 47	13.5	13.9	15.5	7.6	7.6	5.2	8.4	9.6	18.7	251	2.4
>= 42	16.3	9.3	2.3	9.3	14.0	2.3	2.3	16.3	27.9	43	.4
>= 37	.0	.0	.0	.0	.0	.0	.0	.0	100.0	2	.0*
TOTALS	7.6	13.5	14.6	7.6	15.3	20.2	11.6	5.0	4.7	10413	100.0

NOTES :  
\* = PERCENT < .05



4 - PERCENTAGE FREQUENCY OF AIR TEMPERATURE  
VERSUS  
WIND DIRECTION  
(FROM HOURLY OBSERVATIONS)

013750 NORFOLK, VA  
PERIOD OF RECORD : 1945-1986

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : JUN  
PAGE 1

TEMP. (DEG F)	NNW & N	NNE & NE	ENE & E	ESE & SE	WIND DIRECTION		WSW & W	NNW & NW	CALM	TOTAL FREQ.	% OF TOTAL
>= 97	4.3	17.4	8.7	.0	.0	34.8	34.8	.0	.0	23	.2
>= 92	5.4	8.4	5.0	.5	4.5	34.7	37.1	.0	.0	202	2.0
>= 87	3.8	5.9	6.9	3.7	8.2	41.6	24.2	2.0	2.0	598	5.9
>= 82	5.4	8.5	10.4	7.6	12.8	31.4	18.4	1.5	1.5	1176	11.7
>= 77	5.6	10.7	12.3	8.0	16.6	27.4	12.6	2.5	2.5	1890	18.8
>= 72	6.6	9.9	14.4	8.7	15.5	26.3	10.3	4.1	4.3	2840	28.2
>= 67	9.0	13.5	20.5	9.1	13.9	15.9	7.2	4.8	6.2	2011	20.0
>= 62	12.0	15.1	18.3	9.4	11.8	8.9	4.7	6.1	13.7	1015	10.1
>= 57	11.5	17.5	16.8	8.7	9.8	5.6	6.3	5.9	17.8	286	2.8
>= 52	18.8	3.1	6.3	3.1	15.6	9.4	9.4	9.4	25.0	32	.3
>= 47	.0	.0	.0	50.0	.0	.0	.0	.0	50.0	2	.0*
TOTALS	7.3	11.1	14.5	8.1	13.8	23.7	11.8	4.5	5.2	10075	100.0

NOTES :  
\* = PERCENT < .05



4 - PERCENTAGE FREQUENCY OF AIR TEMPERATURE  
VERSUS  
WIND DIRECTION  
(FROM HOURLY OBSERVATIONS)

013750 NORFOLK, VA  
PERIOD OF RECORD : 1945-1986  
LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : JUL  
PAGE 1

TEMP. (DEG F)	NNW & N	NNE & NE	ENE & E	ESE & SE	WIND DIRECTION		WSW & W	WNW & NW	CALM	TOTAL FREQ.	% OF TOTAL
>= 97	.0	4.0	.0	4.0	SSE & S	SSW & SW	56.0	4.0	4.0	25	.2
>= 92	3.4	5.2	5.2	1.8	5.2	43.9	29.5	5.4	.5	387	3.7
>= 87	5.3	7.7	6.7	3.8	8.9	37.6	25.0	3.4	1.6	979	9.4
>= 82	5.8	10.7	11.1	5.1	15.6	27.4	18.6	3.2	2.5	1762	17.0
>= 77	6.4	10.3	13.8	6.7	13.8	29.4	11.5	3.6	4.5	3131	30.1
>= 72	6.1	9.6	13.1	7.8	16.3	26.0	10.3	3.2	7.5	3137	30.2
>= 67	8.0	10.5	15.3	9.3	16.3	13.0	6.0	3.8	17.8	861	8.3
>= 62	5.7	5.7	6.7	7.6	21.9	5.7	2.9	2.9	41.0	105	1.0
>= 57	.0	.0	.0	28.6	14.3	.0	.0	.0	57.1	7	.1
TOTALS	6.1	9.7	12.2	6.6	14.3	27.7	13.9	3.5	6.2	10394	100.0

NOTES :  
\* = PERCENT < .05



4 - PERCENTAGE FREQUENCY OF AIR TEMPERATURE  
VERSUS  
WIND DIRECTION  
(FROM HOURLY OBSERVATIONS)

013750 NORFOLK, VA  
PERIOD OF RECORD : 1945-1986

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : AUG  
PAGE 1

TEMP. (DEG F)	NNW & N	NNE & NE	ENE & E	ESE & SE	WIND DIRECTION SSE & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	% OF TOTAL
>= 97	4.8	.0	4.8	.0	.0	38.1	38.1	14.3	.0	21	.2
>= 92	5.9	2.8	2.8	5.5	42.1	33.5	33.5	4.3	.4	254	2.4
>= 87	4.7	7.2	8.4	12.6	35.1	22.5	22.5	4.0	2.4	746	7.2
>= 82	8.4	12.5	13.8	13.0	24.7	14.8	14.8	3.3	2.6	1661	16.0
>= 77	6.5	13.1	16.0	15.1	24.2	8.8	8.8	3.6	4.9	3055	29.4
>= 72	8.2	14.0	16.9	13.8	18.4	7.4	7.4	4.1	9.0	3449	33.2
>= 67	10.4	17.0	14.3	12.0	12.0	4.2	4.2	4.9	16.2	1012	9.7
>= 62	9.3	12.6	8.7	10.9	4.9	2.2	2.2	10.4	34.4	183	1.8
>= 57	22.2	.0	5.6	11.1	.0	.0	.0	.0	50.0	18	.2
>= 52	.0	.0	.0	.0	25.0	.0	.0	.0	75.0	4	.0*
TOTALS	7.7	12.9	14.7	13.5	22.0	10.3	10.3	4.0	7.3	10403	100.0

NOTES :  
\* = PERCENT < .05



# 4 - PERCENTAGE FREQUENCY OF AIR TEMPERATURE

VERSUS  
WIND DIRECTION  
(FROM HOURLY OBSERVATIONS)

013750 NORFOLK, VA  
PERIOD OF RECORD : 1945-1986

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : SEP  
PAGE 1

TEMP. (DEG F)	NNW E N	NNE ENE	ENE E E	ESE E SE	WIND DIRECTION		WSW E W	WNW ENW	CALM	TOTAL FREQ.	% OF TOTAL
					SSE E S	SSW E SW					
>= 97	.0	.0	.0	.0	.0	100.0	.0	.0	.0	5	.0*
>= 92	2.9	.0	2.9	4.3	7.1	35.7	34.3	11.4	1.4	70	.7
>= 87	2.4	5.6	3.1	1.7	11.5	42.2	27.9	4.5	1.0	287	2.8
>= 82	3.8	10.1	14.4	7.2	15.8	27.4	17.4	2.7	1.1	789	7.8
>= 77	8.7	13.0	17.7	8.0	15.9	21.2	9.1	3.5	2.9	1704	16.9
>= 72	9.0	17.4	20.6	8.3	12.4	17.0	6.4	3.3	5.5	3050	30.3
>= 67	13.9	25.2	19.0	7.4	8.1	9.2	3.9	3.9	9.4	2483	24.6
>= 62	17.0	27.0	10.8	5.7	8.3	7.6	3.2	5.6	14.8	1211	12.0
>= 57	18.3	21.3	6.9	2.8	8.7	6.9	5.1	7.2	22.6	389	3.9
>= 52	24.1	7.2	1.2	2.4	19.3	10.8	3.6	8.4	22.9	83	.8
>= 47	.0	25.0	.0	25.0	.0	.0	25.0	.0	25.0	4	.0*
TOTALS	11.0	18.8	16.7	7.1	11.5	15.9	7.5	4.0	7.5	10075	100.0

NOTES :  
\* = PERCENT < .05



4 - PERCENTAGE FREQUENCY OF AIR TEMPERATURE  
VERSUS  
WIND DIRECTION  
(FROM HOURLY OBSERVATIONS)

013750 NORFOLK, VA  
PERIOD OF RECORD : 1945-1986

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : OCT  
PAGE 1

TEMP. (DEG F)	NNW & N	NNE & NE	ENE & E	ESE & SE	WIND DIRECTION SSE & S	SSW & SW	WSW & W	WNW & NW	CALM	TOTAL FREQ.	% OF TOTAL
>= 92	.0	.0	.0	.0	.0	50.0	50.0	.0	.0	2	.0*
>= 87	4.3	.0	.0	.0	4.3	60.9	30.4	.0	.0	23	.2
>= 82	2.4	2.4	4.0	1.6	16.0	52.0	16.8	4.0	.8	125	1.2
>= 77	2.4	6.1	8.0	5.8	15.9	38.2	18.7	3.4	1.5	327	3.1
>= 72	6.3	11.9	13.7	7.1	17.0	25.0	12.9	3.3	2.9	972	9.3
>= 67	10.0	18.7	21.0	7.0	11.4	15.5	8.2	3.6	4.5	1930	18.5
>= 62	12.9	25.6	17.7	5.1	9.0	11.2	5.8	6.0	6.8	2704	26.0
>= 57	18.4	26.1	11.7	4.2	7.5	10.3	6.7	7.2	7.9	2127	20.4
>= 52	24.6	18.5	6.0	2.8	7.4	10.5	7.7	10.6	11.8	1344	12.9
>= 47	20.4	10.3	2.7	2.0	8.5	11.0	10.3	15.1	19.7	563	5.4
>= 42	25.3	10.0	1.8	1.8	3.6	9.0	9.0	17.6	21.7	221	2.1
>= 37	17.5	1.6	.0	4.8	11.1	12.7	3.2	25.4	23.8	63	.6
>= 32	40.0	.0	.0	.0	.0	.0	.0	20.0	40.0	5	.0*
TOTALS	14.6	19.9	13.4	4.9	9.8	14.4	8.2	6.9	7.8	10406	100.0

NOTES :  
\* = PERCENT < .05



# 4 - PERCENTAGE FREQUENCY OF AIR TEMPERATURE

VERSUS  
WIND DIRECTION  
(FROM HOURLY OBSERVATIONS)

013750 NORFOLK, VA  
PERIOD OF RECORD : 1945-1986

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : NOV  
PAGE 1

TEMP. (DEG F)	NNW		NNE		ENE		ESE		WIND DIRECTION		WSW	WNW	CALM	TOTAL FREQ.	% OF TOTAL
	E N	N E	E NE	N NE	E E	E SE	E S	SSE	SSW	SSW					
>= 82	.0	.0	.0	.0	.0	.0	16.7	83.3	83.3	83.3	.0	.0	.0	6	.1
>= 77	1.6	.0	1.6	.0	.0	.0	29.7	46.9	46.9	46.9	20.3	.0	.0	64	.6
>= 72	.7	1.4	3.2	1.4	3.2	1.8	27.1	44.3	44.3	44.3	16.8	3.6	1.1	280	2.8
>= 67	1.2	3.0	6.7	3.0	6.7	6.0	30.4	34.8	34.8	34.8	13.0	3.0	1.8	563	5.6
>= 62	4.7	7.9	11.3	7.9	11.3	7.5	23.4	24.1	24.1	24.1	12.9	4.0	4.1	1116	11.1
>= 57	10.3	16.0	13.8	16.0	13.8	7.1	14.1	16.7	16.7	16.7	12.0	5.7	4.2	1561	15.5
>= 52	15.2	21.2	8.4	21.2	8.4	4.2	9.3	14.6	14.6	14.6	11.6	9.3	6.1	1898	18.8
>= 47	20.9	20.8	5.2	20.8	5.2	2.3	6.3	12.0	12.0	12.0	11.6	12.0	8.9	1953	19.4
>= 42	24.1	11.8	4.6	11.8	4.6	2.9	4.7	9.4	9.4	9.4	13.4	18.3	10.7	1528	15.2
>= 37	27.0	6.1	1.9	6.1	1.9	2.3	6.2	12.3	12.3	12.3	12.7	17.5	14.0	755	7.5
>= 32	26.1	2.8	.4	2.8	.4	2.1	7.4	10.9	10.9	10.9	10.9	20.4	19.0	284	2.8
>= 27	35.3	2.0	.0	2.0	.0	2.0	9.8	3.9	3.9	3.9	11.8	19.6	15.7	51	.5
>= 22	23.1	.0	.0	.0	.0	.0	.0	46.2	46.2	46.2	15.4	15.4	.0	13	.1
TOTALS	15.8	13.9	7.3	13.9	7.3	4.2	11.8	16.6	16.6	16.6	12.4	10.5	7.4	10072	100.0

NOTES :  
\* = PERCENT < .05



4 - PERCENTAGE FREQUENCY OF AIR TEMPERATURE  
VERSUS  
WIND DIRECTION  
(FROM HOURLY OBSERVATIONS)

013750 NORFOLK, VA  
PERIOD OF RECORD : 1945-1986

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : DEC  
PAGE 1

TEMP. (DEC F)	NNW E N	NNE ENE	ENE E E	ESE ESE	WIND DIRECTION		WSW E W	WNW ENW	CALM	TOTAL FREQ.	% OF TOTAL
>= 77	.0	.0	.0	.0	33.3	66.7	.0	.0	.0	3	.0*
>= 72	.0	.0	.0	.0	12.2	67.3	20.4	.0	.0	49	.5
>= 67	.0	.0	.0	.0	31.8	51.7	14.2	1.9	.5	211	2.0
>= 62	.6	.6	.6	3.2	34.1	44.9	13.4	1.7	.6	463	4.4
>= 57	1.2	2.2	2.5	5.5	23.8	38.4	19.0	4.5	2.7	667	6.4
>= 52	6.5	8.1	8.8	6.1	15.4	26.1	17.5	6.6	5.0	924	8.9
>= 47	10.5	17.9	11.3	3.9	8.1	19.9	14.8	7.5	6.0	1605	15.4
>= 42	18.9	21.5	7.6	3.4	4.9	13.9	13.1	10.4	6.2	2145	20.6
>= 37	21.8	21.8	4.1	1.9	5.0	11.3	13.3	13.1	7.7	1877	18.0
>= 32	25.2	15.6	3.6	1.6	5.5	9.7	11.7	15.6	11.4	1399	13.4
>= 27	29.9	11.1	1.5	2.3	3.6	9.5	11.1	18.8	12.3	749	7.2
>= 22	29.6	5.4	1.5	1.2	4.6	8.1	11.9	26.2	11.5	260	2.5
>= 17	40.0	4.4	.0	.0	.0	6.7	4.4	37.8	6.7	45	.4
>= 12	8.3	8.3	.0	.0	.0	.0	16.7	58.3	8.3	12	.1
>= 7	.0	.0	.0	.0	.0	.0	.0	100.0	.0	3	.0*
TOTALS	16.6	15.1	5.7	3.1	9.4	18.3	13.8	11.0	7.0	10412	100.0

NOTES : PERCENT < .05



4 - PERCENTAGE FREQUENCY OF AIR TEMPERATURE  
VERSUS  
WIND DIRECTION  
(FROM HOURLY OBSERVATIONS)

013750 NORFOLK, VA  
PERIOD OF RECORD : 1945-1986

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : ANN  
PAGE 1

TEMP. (DEG F)	NNW %	NNE %	ENE %	ESE %	WIND DIRECTION SSE %	SSW %	WSW %	NNW %	CALM	TOTAL FREQ.	% OF TOTAL
>= 97	2.7	6.8	4.1	1.4	.0	37.8	40.5	5.4	1.4	74	.1
>= 92	4.4	4.7	4.4	1.9	5.1	40.7	32.9	5.3	.6	939	.8
>= 87	4.5	6.6	6.6	3.2	9.6	39.1	24.8	3.9	1.7	2837	2.3
>= 82	5.8	9.8	11.3	6.0	13.9	29.3	18.3	3.5	2.0	6183	5.1
>= 77	6.2	10.6	13.7	7.0	15.2	28.1	12.0	3.7	3.6	11469	9.4
>= 72	6.6	11.6	14.7	7.7	15.4	24.4	10.4	3.7	5.5	16241	13.3
>= 67	8.2	14.1	15.3	7.3	15.1	20.4	8.7	4.3	6.6	12943	10.6
>= 62	8.7	15.3	12.5	6.4	16.6	19.2	9.2	5.1	7.1	11918	9.7
>= 57	10.1	15.0	11.5	6.4	14.7	19.0	11.1	6.2	5.9	10557	8.6
>= 52	12.4	15.2	10.4	6.8	12.4	15.7	12.3	8.4	6.4	9838	8.0
>= 47	14.1	16.8	11.4	5.3	8.8	13.5	12.6	10.4	7.1	9675	7.9
>= 42	17.3	18.2	11.6	4.5	6.3	10.6	12.1	12.2	7.2	10609	8.7
>= 37	21.5	19.7	7.5	3.8	5.9	9.2	11.9	12.8	7.6	8358	6.8
>= 32	25.8	17.1	5.0	2.7	5.6	8.2	11.1	15.0	9.6	5886	4.8
>= 27	32.3	13.8	2.9	2.3	5.2	6.0	10.8	16.1	10.8	3178	2.6
>= 22	33.1	12.0	1.7	1.5	4.9	5.8	10.5	20.8	9.7	1243	1.0
>= 17	35.1	7.4	.6	.9	2.2	4.9	14.8	25.5	8.6	325	.3
>= 12	16.7	3.6	.0	.0	1.2	2.4	36.9	35.7	3.6	84	.1
>= 7	5.3	.0	.0	.0	.0	.0	47.4	47.4	.0	19	.0*
>= 2	.0	.0	.0	.0	.0	.0	100.0	.0	.0	2	.0*
>= -3	.0	.0	.0	.0	.0	.0	100.0	.0	.0	2	.0*
TOTALS	12.1	14.3	11.4	5.8	12.0	18.8	11.9	7.5	6.2	122380	100.0

NOTES : \* = PERCENT < .05



# 11 - SKY COVER

013750 NORFOLK, VA  
 LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
 PERIOD OF RECORD : 1945-1986

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF TOTAL SKY COVER (FROM HOURLY OBSERVATIONS)				TOTAL
		CLEAR	SCATTERED	BROKEN	OVERCAST	
JAN	01	32.3	14.8	12.7	40.2	1237
	04	32.2	14.5	12.7	40.6	1236
	07	15.5	24.5	19.0	41.0	1236
	10	17.9	18.9	19.1	44.1	1236
	13	15.9	21.2	21.8	41.1	1236
	16	15.9	21.2	23.7	39.2	1234
	19	24.8	19.6	14.8	40.9	1232
	22	29.2	18.0	12.5	40.3	1230
	ALL	23.0	19.1	17.0	40.9	9877
FEB	01	35.2	13.2	10.2	41.3	1132
	04	33.5	14.8	9.7	42.0	1132
	07	15.6	26.4	17.3	40.8	1130
	10	21.0	18.4	18.8	41.7	1131
	13	19.1	20.0	20.1	40.8	1132
	16	17.3	20.9	22.7	39.0	1132
	19	23.7	21.3	15.4	39.7	1132
	22	31.9	17.2	11.0	39.8	1132
	ALL	24.7	19.0	15.7	40.7	9053
MAR	01	34.5	15.6	13.1	36.8	1238
	04	33.9	15.2	11.6	39.3	1235
	07	18.5	21.6	19.0	40.9	1237
	10	18.1	22.8	20.8	38.3	1236
	13	16.1	22.9	21.3	39.7	1236
	16	17.0	22.1	23.2	37.8	1238
	19	20.0	25.0	19.8	35.2	1237
	22	33.2	17.8	13.3	35.7	1237
	ALL	23.9	20.4	17.8	38.0	9894
APR	01	34.4	19.1	15.0	31.4	1197
	04	33.2	21.2	12.6	32.9	1200
	07	21.5	23.0	21.4	34.1	1196
	10	19.7	24.5	22.3	33.4	1200
	13	15.3	26.3	26.1	32.3	1199
	16	15.1	23.2	28.8	32.8	1197
	19	14.2	29.6	23.9	32.4	1199
	22	29.5	22.2	17.5	30.7	1200
	ALL	22.9	23.7	21.0	32.5	9588



# 11 - SKY COVER

013750 NORFOLK, VA  
LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
PERIOD OF RECORD : 1945-1986

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF TOTAL SKY COVER (FROM HOURLY OBSERVATIONS)				TOTAL
		CLEAR	SCATTERED	BROKEN	OVERCAST	
MAY	01	26.3	23.4	18.6	31.7	1238
	04	20.4	27.3	19.8	32.5	1239
	07	17.0	23.3	25.0	34.7	1238
	10	14.1	26.9	26.7	32.3	1233
	13	9.5	29.0	31.0	30.5	1239
	16	9.5	28.1	32.9	29.5	1237
	19	9.7	29.3	29.9	31.1	1237
	22	24.4	23.8	19.9	32.0	1236
	ALL	16.4	26.4	25.5	31.8	9897
JUN	01	26.4	29.7	19.4	24.5	1199
	04	14.0	37.5	24.1	24.4	1196
	07	13.4	30.1	29.2	27.3	1200
	10	12.0	31.2	30.9	25.9	1196
	13	6.2	33.3	35.2	25.3	1198
	16	7.2	33.3	35.5	24.0	1199
	19	9.3	27.2	35.1	28.4	1199
	22	21.5	29.9	22.3	26.3	1199
	ALL	13.7	31.5	29.0	25.8	9586
JUL	01	25.4	29.1	24.2	21.3	1242
	04	16.4	36.0	24.6	23.0	1241
	07	12.8	28.4	32.0	26.7	1242
	10	11.3	30.7	32.1	25.9	1240
	13	5.0	36.2	35.3	23.6	1242
	16	5.6	36.2	34.9	23.3	1242
	19	7.6	30.8	33.5	28.2	1242
	22	20.5	30.7	22.1	26.6	1242
	ALL	13.0	32.3	29.8	24.9	9933
AUG	01	25.6	30.5	21.3	22.6	1241
	04	24.5	32.0	22.5	21.1	1242
	07	10.5	31.9	33.9	23.7	1242
	10	10.5	33.5	33.0	23.0	1243
	13	5.3	37.8	35.7	21.1	1242
	16	7.7	33.5	37.9	20.9	1242
	19	9.8	33.6	33.4	23.1	1241
	22	22.5	31.3	23.4	22.8	1241
	ALL	14.6	33.0	30.1	22.3	9934



# II - SKY COVER

013750 NORFOLK, VA  
LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
PERIOD OF RECORD : 1945-1986

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF TOTAL SKY COVER (FROM HOURLY OBSERVATIONS)				TOTAL
		CLEAR	SCATTERED	BROKEN	OVERCAST	
SEP	01	32.0	26.5	18.8	22.8	1198
	04	28.7	27.7	20.4	23.2	1200
	07	11.6	31.6	29.9	27.0	1198
	10	13.3	32.1	27.9	26.8	1199
	13	9.3	36.6	28.6	25.5	1199
	16	13.1	32.6	29.2	25.2	1200
	19	16.2	32.1	26.6	25.1	1199
	22	27.2	31.2	18.1	23.5	1198
	ALL	18.9	31.3	24.9	24.9	9591
OCT	01	37.4	19.1	15.9	27.7	1269
	04	37.4	20.5	15.0	27.1	1269
	07	19.6	27.1	23.2	30.1	1267
	10	20.2	27.7	21.4	30.8	1268
	13	17.5	28.5	25.0	28.9	1266
	16	18.6	28.0	26.2	27.2	1263
	19	26.6	25.5	19.4	28.5	1266
	22	34.1	21.8	16.8	27.3	1270
	ALL	26.4	24.8	20.3	28.4	10138
NOV	01	36.0	18.4	14.9	30.7	1259
	04	36.9	18.4	14.0	30.7	1257
	07	14.9	30.9	24.4	29.7	1254
	10	18.9	27.8	22.8	30.5	1259
	13	16.6	27.4	26.8	29.2	1258
	16	16.1	26.3	26.7	30.9	1253
	19	28.9	25.3	16.6	29.1	1256
	22	33.3	20.4	15.7	30.6	1258
	ALL	25.2	24.4	20.2	30.2	10054
DEC	01	35.8	16.3	13.5	34.3	1299
	04	36.0	16.2	13.5	34.3	1299
	07	13.7	27.9	23.9	34.5	1301
	10	16.4	23.5	20.7	39.4	1296
	13	16.2	22.8	23.7	37.2	1300
	16	16.8	22.8	23.0	37.4	1298
	19	27.5	21.5	15.6	35.4	1299
	22	31.3	17.8	15.8	35.1	1298
	ALL	24.2	21.1	18.7	36.0	10390



# 11 - SKY COVER

013750 NORFOLK, VA  
 LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
 PERIOD OF RECORD : 1945-1986

MONTH	HOURS (LST)	PERCENTAGE FREQUENCY OF TOTAL SKY COVER (FROM HOURLY OBSERVATIONS)				TOTAL
		CLEAR	SCATTERED	BROKEN	OVERCAST	
ANN	01	31.8	21.3	16.5	30.4	14749
	04	29.0	23.4	16.7	30.9	14746
	07	15.4	27.2	24.9	32.5	14741
	10	16.1	26.5	24.7	32.7	14737
	13	12.7	28.5	27.6	31.2	14747
	16	13.3	27.4	28.7	30.6	14735
	19	18.2	26.7	23.6	31.4	14739
	22	28.2	23.5	17.4	30.9	14741
	ALL	20.6	25.6	22.5	31.3	117935



## 12 - RELATIVE HUMIDITY

013750 NORFOLK, VA  
PERIOD OF RECORD : 1945-1986

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (LST)	10%	20%	30%	40%	50%	60%	70%	80%	90%	MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
JAN	01	100.0	100.0	99.2	94.8	82.9	68.0	48.5	29.8	13.0	69.3	1270
	04	100.0	100.0	99.6	96.5	85.0	70.0	50.1	31.3	15.0	70.6	1270
	07	100.0	100.0	99.5	97.1	87.2	71.0	51.9	33.5	16.4	71.3	1270
	10	100.0	100.0	99.3	94.5	78.5	58.5	41.6	25.1	10.5	66.5	1270
	13	100.0	99.9	95.7	80.5	62.6	45.0	30.3	18.3	7.5	59.6	1271
	16	100.0	99.8	93.1	77.7	61.5	45.7	29.8	17.6	7.1	58.8	1271
	19	100.0	99.9	97.4	87.6	74.7	57.9	40.3	25.0	9.4	64.8	1270
	22	100.0	100.0	98.7	91.7	78.8	63.1	44.2	27.2	12.2	67.2	1270
	ALL	100.0	100.0	97.8	90.0	76.4	59.9	42.1	26.0	11.4	66.0	10162
FEB	01	100.0	99.8	98.7	94.5	83.4	67.0	48.4	31.3	14.0	69.4	1183
	04	100.0	99.9	99.4	95.9	86.1	70.8	52.2	31.9	14.4	70.7	1183
	07	100.0	100.0	99.3	97.2	87.7	73.0	53.5	34.0	15.6	71.6	1183
	10	100.0	100.0	98.3	90.0	73.9	53.9	38.8	23.2	10.5	64.7	1182
	13	100.0	99.3	92.0	75.4	56.3	41.2	28.1	17.2	8.0	57.5	1183
	16	100.0	98.6	88.5	73.4	56.7	42.4	28.5	18.7	8.9	57.2	1183
	19	100.0	99.5	95.9	85.7	72.2	54.7	38.5	23.8	10.0	63.7	1182
	22	100.0	99.7	98.0	91.7	79.5	62.4	45.0	27.9	12.0	67.2	1182
	ALL	100.0	99.6	96.3	88.0	74.5	58.2	41.6	26.0	11.7	65.2	9461
MAR	01	100.0	100.0	99.5	95.0	84.3	69.1	48.7	28.9	11.8	69.5	1299
	04	100.0	100.0	99.8	97.1	86.6	73.0	55.4	33.1	13.7	71.6	1300
	07	100.0	100.0	100.0	98.2	88.1	74.5	55.6	35.2	14.6	72.5	1299
	10	100.0	100.0	98.3	86.8	69.3	48.8	31.5	19.7	8.7	62.1	1300
	13	100.0	99.5	90.2	72.6	53.0	36.7	25.4	14.4	6.1	55.3	1301
	16	100.0	98.5	86.2	69.2	53.2	37.4	24.5	15.0	7.4	54.8	1301
	19	100.0	99.7	95.3	83.2	66.4	49.7	32.9	19.6	8.9	61.2	1301
	22	100.0	100.0	98.1	92.0	79.3	61.0	43.0	24.0	10.7	66.4	1301
	ALL	100.0	99.7	95.9	86.8	72.5	56.3	39.6	23.7	10.2	64.2	10402
APR	01	100.0	100.0	99.7	96.0	86.7	70.4	50.3	27.9	11.5	69.9	1260
	04	100.0	100.0	99.8	97.9	89.2	74.2	55.2	34.4	13.0	72.2	1260
	07	100.0	100.0	99.8	97.8	88.4	72.0	51.5	30.4	12.6	71.0	1260
	10	100.0	99.8	97.5	82.6	60.6	40.8	26.2	14.5	5.2	58.3	1259
	13	100.0	99.4	87.6	66.6	44.7	31.4	19.8	10.1	3.7	51.8	1259
	16	100.0	98.3	84.3	64.8	44.9	31.6	21.7	11.3	4.3	51.7	1260
	19	100.0	99.8	94.9	81.2	63.1	45.3	30.6	17.2	5.5	59.4	1259
	22	100.0	100.0	99.2	92.9	81.9	61.3	42.1	24.1	9.2	66.8	1259
	ALL	100.0	99.7	95.4	85.0	69.8	53.4	37.2	21.3	8.1	62.6	10076



## 12 - RELATIVE HUMIDITY

013750 NORFOLK, VA  
PERIOD OF RECORD : 1945-1986

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

MONTH HOURS (LST)	10%	20%	30%	40%	50%	60%	70%	80%	90%	MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
<b>MAY</b>											
01	100.0	100.0	100.0	99.2	95.5	84.3	65.8	42.3	16.5	76.2	1300
04	100.0	100.0	100.0	99.2	96.7	87.9	72.7	48.0	19.0	78.2	1302
07	100.0	100.0	100.0	99.3	94.5	82.6	62.1	38.6	13.4	74.8	1302
10	100.0	100.0	98.9	92.1	74.9	51.2	31.6	15.3	5.0	62.5	1302
13	100.0	99.7	95.3	77.2	57.6	39.4	23.8	11.1	3.5	56.4	1301
16	100.0	99.8	94.2	75.9	56.6	40.6	25.3	14.5	4.0	56.7	1301
19	100.0	100.0	98.6	90.6	75.2	55.6	38.9	21.4	7.1	64.4	1301
22	100.0	100.0	100.0	98.4	91.1	76.8	55.7	34.7	12.0	72.5	1301
ALL	100.0	99.9	98.4	91.5	80.3	64.8	47.0	28.3	10.1	67.7	10410
<b>JUN</b>											
01	100.0	100.0	100.0	99.8	98.6	93.7	76.6	47.6	15.7	78.8	1260
04	100.0	100.0	100.0	99.8	99.1	96.0	82.4	58.0	19.3	81.4	1259
07	100.0	100.0	100.0	99.5	98.1	91.3	72.2	41.9	11.0	77.1	1260
10	100.0	100.0	99.7	97.4	85.1	58.7	31.6	13.2	2.5	64.4	1259
13	100.0	100.0	98.9	89.8	65.8	40.1	19.9	8.5	1.7	57.9	1259
16	100.0	100.0	98.4	86.8	63.2	39.8	23.0	10.2	2.9	57.9	1259
19	100.0	100.0	99.8	96.8	84.0	59.2	39.7	17.9	4.4	65.7	1260
22	100.0	100.0	100.0	99.8	96.7	86.0	63.7	36.0	9.8	74.8	1260
ALL	100.0	100.0	99.6	96.2	86.3	70.6	51.1	29.2	6.4	69.7	10076
<b>JUL</b>											
01	100.0	100.0	100.0	100.0	99.3	96.4	85.2	56.6	16.1	81.1	1301
04	100.0	100.0	100.0	100.0	99.6	97.5	89.9	67.1	21.5	83.2	1301
07	100.0	100.0	100.0	100.0	99.3	94.6	81.9	51.3	12.8	79.6	1301
10	100.0	100.0	99.9	99.3	92.4	70.7	38.3	14.6	2.3	67.3	1301
13	100.0	100.0	99.7	93.8	75.3	45.8	21.4	9.4	2.0	60.3	1301
16	100.0	100.0	99.8	92.8	71.5	47.2	27.0	13.8	4.2	61.2	1300
19	100.0	100.0	100.0	98.8	90.2	70.4	44.2	23.2	6.5	68.9	1300
22	100.0	100.0	100.0	100.0	98.9	92.4	72.7	41.5	12.3	77.3	1298
ALL	100.0	100.0	99.9	98.1	90.8	76.9	57.6	34.7	9.7	72.4	10403
<b>AUG</b>											
01	100.0	100.0	100.0	100.0	99.2	96.7	86.4	60.2	16.9	81.4	1302
04	100.0	100.0	100.0	99.9	99.0	96.9	89.3	67.6	22.1	83.1	1301
07	100.0	100.0	100.0	99.9	99.2	95.7	86.6	60.5	18.6	81.6	1301
10	100.0	100.0	100.0	99.2	94.2	75.7	43.5	15.6	3.1	68.5	1302
13	100.0	100.0	100.0	96.5	79.4	51.3	22.8	8.1	2.2	61.6	1302
16	100.0	100.0	99.9	95.1	78.4	52.2	29.1	12.4	3.7	62.6	1302
19	100.0	100.0	100.0	99.4	94.0	76.8	50.7	23.4	6.1	70.6	1301
22	100.0	100.0	100.0	99.9	99.1	93.2	75.2	44.4	11.3	77.8	1301
ALL	100.0	100.0	100.0	98.8	92.8	79.8	60.5	36.5	10.5	73.4	10412



## 12 - RELATIVE HUMIDITY

013750 NORFOLK, VA  
PERIOD OF RECORD : 1945-1986

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

MONTH HOURS (LST)	10%	20%	30%	40%	50%	60%	70%	80%	90%	MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
SEP											
01	100.0	100.0	100.0	99.5	97.1	90.2	76.9	52.7	14.1	78.6	1260
04	100.0	100.0	100.0	99.7	96.6	91.2	79.0	56.8	17.9	79.9	1260
07	100.0	100.0	100.0	99.7	97.5	90.9	76.5	55.4	17.7	79.4	1260
10	100.0	100.0	100.0	98.1	88.7	66.7	39.9	16.0	3.8	66.8	1260
13	100.0	100.0	99.4	93.8	72.5	45.5	25.3	10.8	2.9	60.7	1260
16	100.0	100.0	99.3	92.5	48.7	29.2	13.3	4.3	61.3	1260	1260
19	100.0	100.0	100.0	98.3	92.1	74.3	50.4	24.2	6.1	69.9	1258
22	100.0	100.0	100.0	99.5	96.5	88.2	69.4	39.5	9.7	75.7	1258
ALL	100.0	100.0	99.8	97.6	89.2	74.5	55.8	33.6	9.6	71.5	10076
OCT											
01	100.0	100.0	99.9	98.8	94.3	84.2	68.5	45.5	16.9	76.7	1301
04	100.0	100.0	99.8	99.3	94.6	85.5	70.9	49.6	21.2	77.9	1301
07	100.0	100.0	99.9	99.3	95.8	86.0	71.6	50.3	20.7	78.4	1301
10	100.0	100.0	99.5	96.4	82.6	63.3	40.8	21.6	6.6	66.7	1301
13	100.0	99.8	97.2	85.9	66.6	44.7	26.7	15.5	4.6	59.6	1301
16	100.0	99.5	96.2	85.5	67.8	47.2	29.4	17.3	5.6	60.5	1301
19	100.0	100.0	99.5	95.9	88.0	70.7	47.9	27.3	8.6	69.4	1300
22	100.0	100.0	99.8	98.2	92.0	81.6	61.9	38.7	12.5	74.1	1301
ALL	100.0	99.9	99.0	94.9	85.2	70.4	52.2	33.2	12.1	70.4	10407
NOV											
01	100.0	100.0	99.8	97.1	86.7	74.3	56.8	36.1	14.0	72.4	1259
04	100.0	100.0	99.9	98.2	92.5	77.7	60.7	40.0	17.0	74.3	1259
07	100.0	100.0	99.9	98.7	93.6	79.8	62.9	41.1	18.3	75.2	1259
10	100.0	100.0	99.4	94.3	75.0	57.3	38.5	21.7	8.5	65.6	1260
13	100.0	99.8	94.7	78.9	59.3	40.6	27.2	15.2	5.6	57.7	1260
16	100.0	99.6	94.8	78.2	60.3	44.0	28.6	16.6	6.1	58.5	1258
19	100.0	100.0	98.8	92.1	77.2	60.6	43.0	24.9	8.4	66.2	1257
22	100.0	100.0	99.4	96.2	84.4	68.5	49.4	31.9	11.7	69.9	1258
ALL	100.0	100.0	98.3	91.7	79.4	62.9	45.9	28.4	11.2	67.5	10070
DEC											
01	100.0	100.0	99.7	95.9	84.7	69.4	49.5	31.5	13.2	70.1	1299
04	100.0	100.0	99.8	97.6	88.4	72.3	51.6	33.5	14.7	71.5	1298
07	100.0	100.0	99.8	97.5	90.1	75.4	55.0	34.4	16.6	72.6	1300
10	100.0	100.0	99.4	93.2	78.6	57.4	39.7	24.6	11.8	66.2	1300
13	100.0	99.7	95.2	82.1	63.2	44.6	29.1	18.9	9.2	59.7	1301
16	100.0	99.5	94.5	79.7	62.3	46.3	31.0	18.9	8.2	59.8	1300
19	100.0	99.8	98.2	90.8	76.6	57.5	41.0	25.0	10.8	65.5	1299
22	100.0	100.0	99.1	92.5	81.2	65.0	46.0	29.0	12.3	68.3	1297
ALL	100.0	99.9	98.2	91.2	76.1	61.0	42.8	27.0	12.1	66.7	10394



## 12 - RELATIVE HUMIDITY

013750 NORFOLK, VA  
PERIOD OF RECORD : 1945-1986

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM HOURLY OBSERVATIONS)

MONTH HOURS (LST)	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
	10%	20%	30%	40%	50%	60%	70%	80%	90%		
ANN	100.0	100.0	99.7	97.6	91.3	80.4	63.6	41.0	14.5	74.5	15294
	100.0	100.0	99.8	98.4	92.8	82.9	67.6	46.1	17.4	76.3	15294
	100.0	100.0	99.9	98.7	93.3	82.3	65.2	42.3	15.7	75.5	15296
	100.0	100.0	99.2	93.7	79.9	58.7	36.8	18.7	6.5	65.0	15296
	100.0	100.0	99.8	95.5	82.8	63.1	42.2	25.0	4.7	58.2	15299
	100.0	99.5	94.1	81.0	62.5	43.6	27.3	15.0	5.6	58.4	15296
	100.0	99.9	98.2	91.7	79.6	61.1	41.5	22.7	7.6	65.9	15288
	100.0	100.0	99.4	96.1	86.3	75.1	55.8	33.3	11.3	71.5	15286
	100.0	99.9	98.2	92.5	81.3	65.8	47.9	29.0	10.4	68.1	122349
	ALL	100.0	99.9	98.2	92.5	81.3	65.8	47.9	29.0	10.4	68.1



## 13 - WEATHER CONDITIONS

013750 NORFOLK, VA  
PERIOD OF RECORD : 1945-1986

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS  
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (LST)	TSTM	RAIN E/OR DRIZZLE	FREEZE RAIN & FREEZE DRIZZLE	SNOW E/OR SLEET	HAIL	# OF OBS WITH PRECIP	FOG	SMOKE E/OR HAZE	FLOWING SNOW	DUST E/OR SAND	# OBS. W/OBST VISION	TOTAL NO. OF OBS.
JAN	01	.0	10.8	.2	2.1	.2	12.8	14.0	13.3	.3	.0	25.1	1222
	04	.0	11.7	.4	2.0	.3	13.6	15.6	13.9	.2	.0	27.1	1221
	07	.1	12.6	.3	2.0	.5	14.8	20.2	21.0	.4	.0	37.3	1226
	10	.1	10.7	.5	3.2	.4	14.2	15.7	33.9	.4	.0	47.3	1229
	13	.1	9.9	.2	3.3	.3	13.2	12.2	23.8	.5	.0	34.8	1227
	16	.1	9.7	.3	2.7	.3	12.4	11.5	21.7	.1	.0	31.5	1222
	19	.1	10.8	.5	2.4	.5	13.3	11.1	17.1	.2	.1	26.9	1220
	22	.1	10.2	.4	2.5	.4	12.6	12.2	15.6	.4	.1	26.8	1222
	ALL	.1	10.6	.4	2.5	.4	13.4	14.1	20.1	.3	.0	32.1	9789
FEB	01	.0	10.5	.1	1.6	.2	11.8	14.8	12.6	.1	.1	25.9	1166
	04	.1	10.9	.3	1.5	.1	12.0	16.9	13.6	.1	.1	28.4	1165
	07	.2	10.8	.2	2.0	.6	12.6	22.8	24.0	.0	.3	42.7	1169
	10	.0	10.5	.2	2.1	.3	12.1	17.1	28.5	.3	.1	43.8	1168
	13	.1	10.7	.0	1.8	.5	12.2	13.0	21.4	.3	.2	33.4	1166
	16	.1	11.4	.0	2.3	.4	13.6	12.7	19.2	.2	.1	31.2	1165
	19	.1	10.5	.1	2.2	.2	12.6	13.1	17.3	.3	.1	29.1	1162
	22	.3	10.7	.2	2.1	.2	12.7	14.4	13.3	.1	.1	26.4	1163
	ALL	.1	10.8	.1	1.9	.3	12.4	15.6	18.8	.2	.1	32.6	9324
MAR	01	.6	9.8	.0	1.0	.1	10.5	11.4	11.7	.2	.0	22.4	1253
	04	.3	11.5	.1	1.0	.2	12.1	13.5	11.6	.1	.0	23.9	1255
	07	.2	12.2	.1	1.4	.2	13.3	21.2	27.6	.2	.0	44.5	1257
	10	.0	11.0	.1	1.0	.2	11.9	13.0	25.5	.1	.0	37.0	1259
	13	.2	11.3	.0	1.1	.4	11.9	9.9	19.4	.1	.2	28.5	1257
	16	.2	11.3	.0	1.0	.2	12.1	10.4	16.9	.1	.3	26.5	1253
	19	.2	10.8	.0	.8	.0	11.5	10.6	15.0	.2	.2	25.0	1255
	22	.5	10.1	.2	.8	.1	10.8	10.9	11.5	.1	.2	21.7	1255
	ALL	.3	11.0	.0	1.0	.2	11.8	12.6	17.4	.1	.1	28.7	10044
APR	01	.6	8.6	.0	.0	.0	8.6	9.5	10.7	.0	.0	18.9	1237
	04	.2	9.1	.0	.1	.0	9.1	12.0	12.1	.0	.0	22.4	1237
	07	.2	8.7	.0	.1	.0	8.8	17.1	30.6	.0	.0	42.8	1242
	10	.2	8.6	.0	.2	.0	8.7	8.9	23.9	.0	.0	31.2	1241
	13	.2	7.5	.0	.2	.0	7.7	5.2	17.5	.0	.0	22.0	1240
	16	.6	9.1	.0	.2	.1	9.2	5.1	15.2	.0	.2	19.8	1240
	19	.9	8.1	.0	.1	.0	8.2	7.3	19.0	.0	.1	25.3	1243
	22	.4	8.9	.0	.0	.0	8.9	8.2	12.2	.0	.0	19.6	1238
	ALL	.4	8.6	.0	.1	.0	8.6	9.2	17.7	.0	.0	25.3	9918



## 13 - WEATHER CONDITIONS

013750 NORFOLK, VA  
PERIOD OF RECORD : 1945-1986

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS  
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (LST)	TSTM	RAIN E/OT DRIZZLE	FREEZE RAIN & FREEZE DRIZZLE	SNOW E/OT SLEET	HAIL	% OF OBS WITH PRECIP	FOG	SMOKE E/OT HAZE	BLOWING SNOW	DUST E/OT SAND	% OBS. W/OBST VISION	TOTAL NO. OF OBS.
MAY	01	.9	8.6	.0	.0	.0	8.6	12.6	15.2	.0	.0	26.0	1280
	04	.3	8.3	.0	.0	.0	8.3	17.9	17.7	.0	.0	31.7	1282
	07	.2	8.8	.0	.0	.0	8.8	19.8	36.9	.0	.0	51.0	1289
	10	.3	7.2	.0	.0	.0	7.2	8.1	29.2	.0	.0	35.7	1284
	13	.5	7.5	.0	.0	.0	7.5	4.8	24.0	.0	.0	28.0	1286
	16	1.9	8.2	.0	.0	.0	3.0	5.4	21.1	.0	.0	25.8	1286
	19	2.1	8.8	.0	.0	.0	8.8	7.4	23.9	.0	.2	30.5	1287
	22	1.2	8.4	.0	.0	.0	8.4	8.6	16.5	.0	.1	23.9	1282
	ALL	.9	8.2	.0	.0	.0	8.2	10.6	23.1	.0	.0	31.6	10276
JUN	01	1.1	5.9	.0	.0	.0	5.8	9.3	23.2	.0	.0	29.4	1239
	04	.6	6.0	.0	.0	.0	6.0	16.5	28.2	.0	.0	38.3	1239
	07	.2	5.4	.0	.0	.0	5.4	16.7	48.7	.0	.0	57.4	1254
	10	.2	5.4	.0	.0	.0	5.4	3.1	38.5	.0	.0	41.1	1249
	13	1.0	4.9	.0	.0	.0	4.9	2.1	33.3	.0	.0	34.8	1246
	16	2.1	6.5	.0	.0	.0	6.5	2.3	30.8	.0	.1	32.5	1249
	19	2.2	7.2	.0	.0	.0	7.2	4.3	31.7	.0	.0	35.1	1246
	22	2.9	7.0	.0	.0	.0	6.9	5.2	25.4	.0	.2	29.6	1242
	ALL	1.3	6.0	.0	.0	.0	6.0	7.5	32.5	.0	.0	37.3	9964
JUL	01	1.5	4.8	.0	.0	.0	4.8	7.6	30.6	.0	.0	34.4	1283
	04	1.1	4.5	.0	.0	.0	4.9	15.0	32.0	.0	.0	40.9	1285
	07	.5	4.6	.0	.0	.0	4.6	18.8	49.1	.0	.0	56.8	1292
	10	.4	4.8	.0	.0	.0	4.8	3.4	44.7	.0	.0	46.3	1293
	13	1.6	6.0	.0	.0	.0	6.0	1.9	37.6	.0	.0	39.2	1294
	16	3.6	8.3	.0	.0	.0	8.3	2.3	36.6	.0	.1	38.1	1292
	19	3.4	9.1	.0	.0	.0	9.1	3.9	39.9	.0	.0	42.4	1293
	22	2.6	7.9	.0	.0	.0	7.9	4.3	29.5	.0	.0	32.3	1284
	ALL	1.8	6.3	.0	.0	.0	6.3	7.2	37.5	.0	.0	41.3	10316
AUG	01	1.1	5.5	.0	.0	.0	5.5	10.8	34.2	.0	.0	40.3	1282
	04	.8	4.8	.0	.0	.0	4.8	17.5	35.3	.0	.0	44.1	1282
	07	.2	4.8	.0	.0	.0	4.7	24.9	53.4	.0	.1	63.6	1292
	10	.5	5.0	.0	.0	.0	5.0	3.7	50.5	.0	.0	52.4	1286
	13	1.2	6.3	.0	.0	.0	6.3	1.6	40.2	.0	.0	41.3	1284
	16	3.7	8.6	.0	.0	.0	8.6	1.9	37.2	.0	.0	38.7	1283
	19	3.0	8.0	.0	.0	.0	8.0	4.4	41.9	.0	.0	44.7	1285
	22	2.1	7.3	.0	.0	.0	7.3	4.6	33.8	.0	.0	36.4	1281
	ALL	1.6	6.3	.0	.0	.0	6.3	6.7	40.8	.0	.0	45.2	10275



## 13 - WEATHER CONDITIONS

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT

013750 NORFOLK, VA  
PERIOD OF RECORD : 1945-1986PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS  
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (LST)	TSTM	RAIN E/OP DRIZZLE	FREEZE RAIN & FREEZE DRIZZLE	SNOW E/DR SLEET	HAIL	% OF OBS WITH PRECIP	FOG	SMOKE E/DR HAZE	BLOWING SNOW	DUST E/DR SAND	% OBS. W/OBST VISION	TOTAL NO. OF OBS.
SEP	01	.5	6.3	.0	.0	.0	6.2	10.0	22.6	.0	.0	29.3	1239
	04	.5	6.8	.0	.0	.0	6.7	15.8	24.3	.0	.0	35.2	1238
	07	.1	7.5	.0	.0	.0	7.5	23.6	40.0	.0	.1	53.0	1247
	10	.1	6.3	.0	.0	.0	6.2	5.3	36.5	.0	.0	40.5	1243
	13	.5	7.7	.0	.0	.0	7.7	3.1	28.1	.0	.0	30.9	1240
	16	1.2	7.8	.0	.0	.0	7.8	4.4	24.5	.0	.0	28.5	1237
	19	1.1	7.8	.0	.0	.0	7.7	5.6	24.3	.0	.0	28.8	1235
	22	.6	6.5	.0	.0	.0	6.5	5.6	21.7	.0	.0	26.0	1235
	ALL	.6	7.1	.0	.0	.0	7.1	9.2	27.8	.0	.0	34.1	9914
OCT	01	.2	8.6	.0	.0	.0	8.4	14.8	17.7	.0	.0	28.6	1257
	04	.3	9.4	.0	.0	.0	9.3	18.7	19.1	.0	.0	33.0	1259
	07	.0	8.7	.0	.0	.0	8.7	30.0	32.3	.0	.1	50.3	1280
	10	.0	7.7	.0	.0	.0	7.7	10.1	32.7	.0	.0	40.4	1269
	13	.0	7.7	.0	.0	.0	7.7	7.0	22.6	.0	.0	28.5	1265
	16	.4	8.7	.0	.0	.0	8.7	6.4	20.0	.0	.0	25.3	1263
	19	.2	8.4	.0	.0	.0	8.3	6.8	18.6	.0	.0	24.3	1261
	22	.3	8.3	.0	.0	.0	8.3	9.7	17.2	.0	.0	24.7	1257
	ALL	.2	8.4	.0	.0	.0	8.4	13.0	22.6	.0	.0	31.9	10111
NOV	01	.3	9.3	.0	.0	.0	9.3	12.7	15.7	.0	.0	25.3	1217
	04	.2	9.8	.0	.0	.0	9.8	16.0	15.1	.0	.0	27.7	1219
	07	.2	9.5	.0	.1	.0	9.6	27.1	28.0	.0	.0	46.6	1230
	10	.0	10.3	.0	.2	.0	10.0	13.4	30.6	.0	.1	41.6	1227
	13	.0	8.8	.0	.2	.0	8.8	8.1	22.0	.0	.0	29.1	1220
	16	.1	8.9	.0	.2	.0	8.9	7.8	19.6	.0	.0	26.5	1219
	19	.1	8.8	.0	.2	.0	9.0	8.5	18.0	.0	.0	25.1	1213
	22	.2	9.0	.0	.1	.0	9.1	11.0	16.2	.0	.0	25.1	1213
	ALL	.1	9.3	.0	.1	.0	9.3	13.1	20.7	.0	.0	30.9	9758
DEC	01	.0	9.1	.1	.5	.1	9.4	13.7	16.0	.1	.0	27.6	1259
	04	.0	10.1	.1	.7	.0	10.7	13.9	13.2	.1	.0	25.3	1256
	07	.0	11.3	.0	.5	.1	11.6	22.7	22.0	.1	.0	39.0	1262
	10	.0	10.2	.0	1.3	.6	11.3	16.1	30.6	.2	.0	43.9	1263
	13	.0	11.2	.0	1.3	.3	12.3	10.9	21.8	.1	.0	31.7	1261
	16	.0	10.5	.0	1.0	.1	11.3	11.4	20.2	.1	.0	30.3	1259
	19	.0	10.4	.2	.8	.1	11.1	11.3	16.3	.1	.0	26.5	1256
	22	.0	9.5	.0	.7	.0	10.0	13.2	15.1	.1	.0	26.7	1255
	ALL	.0	10.3	.0	.8	.1	11.0	14.1	19.4	.1	.0	31.4	10071



## 13 - WEATHER CONDITIONS

013750 NORFOLK, VA  
PERIOD OF RECORD : 1945-1986

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT

PERCENTAGE FREQUENCY OF OCCURRENCE OF WEATHER CONDITIONS  
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS (LST)	TSTM	RAIN E/OP DRIZZLE	FREEZE RAIN & FREEZE DRIZZLE	SNOW E/OP SLEET	HAIL	% OF OBS WITH PRECIP	FOG	SMOKE E/OP HAZE	BLOWING SNOW	DUST E/OP SAND	% OBS. W/OBST VISION	TOTAL NO. OF OBS.
JAN	ALL	.1	10.8	.4	2.5	.4	13.4	14.1	20.1	.3	.0*	32.1	9789
FEB	ALL	.1	10.8	.1	1.9	.3	12.4	15.6	18.8	.2	.1	32.6	9324
MAR	ALL	.3	11.0	.0*	1.0	.2	11.8	12.6	17.4	.1	.1	28.7	10044
APR	ALL	.4	8.6	.0	.1	.0*	8.6	9.2	17.7	.0	.0*	25.3	9918
MAY	ALL	.9	8.2	.0	.0	.0	9.2	10.6	23.1	.0	.0*	31.6	10276
JUN	ALL	1.3	6.0	.0	.0	.0	6.0	7.5	32.5	.0	.0*	37.3	9964
JUL	ALL	1.8	6.3	.0	.0	.0	6.3	7.2	37.5	.0	.0*	41.3	10316
AUG	ALL	1.6	6.3	.0	.0	.0	6.3	8.7	40.8	.0	.0*	45.2	10275
SEP	ALL	.6	7.1	.0	.0	.0	7.1	9.2	27.8	.0	.0*	34.1	9914
OCT	ALL	.2	8.4	.0	.0	.0	8.4	13.0	22.6	.0	.0*	31.9	10111
NOV	ALL	.1	9.3	.0	.1	.0*	9.3	13.1	20.7	.0	.0*	30.9	9758
DEC	ALL	.0	10.3	.0*	.8	.1	11.0	14.1	19.4	.1	.0	31.4	10071
TOTALS		.6	8.6	.0*	.5	.1	9.0	11.2	25.0	.1	.0*	33.6	119760



14 - PERCENTAGE FREQUENCY OF WIND DIRECTION  
VERSUS  
WEATHER CONDITIONS  
(FROM HCURLY OBSERVATIONS)

013750 NORFOLK, VA  
PERIOD OF RECORD : 1945-1986

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : JAN

WIND DIR.	RAIN	RAIN SHOWERS	DRIZZLE	FREEZE RAIN FREEZE	SLEET " SHOWERS ICE	SNOW " GRAINS " PELLET	HAIL SMALL HAIL	THUNDER TORNADO SQUALLS	FUG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND DUST	NO WEATHER
N	10.5	.3	4.0	.3	.9	6.2	.0	.1	17.3	.6	13.4	1.2	.0	60.6
NNE	11.0	.5	2.9	.8	.8	5.6	.0	.0	15.5	.9	18.5	.8	.2	55.4
NF	13.3	.0	.9	.4	1.5	5.1	.0	.0	11.6	1.3	19.5	.0	.0	56.5
ENE	13.6	.0	2.7	.6	.6	3.6	.0	.0	13.5	.9	24.9	.0	.0	52.7
E	17.5	.4	2.1	.4	.0	1.3	.0	.0	15.4	1.3	23.5	.0	.0	55.1
ESE	17.4	1.7	3.5	1.7	.0	1.7	.0	.0	16.3	2.6	16.5	.0	.0	54.8
SE	14.6	.0	2.6	.0	.0	2.1	.0	.0	11.5	4.2	24.0	.0	.0	56.8
SSE	10.1	2.0	.7	1.0	.0	.3	.0	.0	11.1	5.4	22.6	.0	.0	52.2
S	9.3	1.8	1.0	.2	.2	.5	.0	.2	11.6	5.1	30.3	.0	.0	48.0
SSW	5.2	.6	.6	.0	.1	.1	.0	.2	5.8	2.1	25.1	.0	.0	60.5
SW	4.3	1.4	1.0	.0	.1	.3	.0	.0	7.5	2.9	24.6	.0	.0	60.1
WSW	6.9	.4	1.0	.3	.1	.4	.0	.1	9.6	2.5	20.2	.0	.0	62.4
W	3.7	.7	1.6	.1	.0	1.6	.0	.1	10.5	1.6	13.6	.5	.0	66.5
WNW	4.5	.5	2.3	.0	.0	1.2	.0	.0	10.1	.7	10.8	.0	.0	72.1
NW	4.6	.2	1.6	.7	.4	3.4	.0	.0	6.8	.5	11.1	.4	.0	75.0
NNW	4.5	.1	2.8	.5	.1	2.8	.0	.0	11.3	.9	12.6	.5	.0	69.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLM	6.8	.2	1.4	.2	.2	.8	.0	.0	14.0	5.5	26.9	.0	.0	54.2
TOTALS	807	59	193	34	36	245	0	6	1166	210	1964	31	2	6161
% TOTAL	7.9	.6	1.9	.3	.4	2.4	.0	.1	11.5	2.1	19.3	.3	.0*	60.6

TOTAL NUMBER OF OBSERVATIONS : 10165

NOTES :  
\* = PERCENT < .05



14 - PERCENTAGE FREQUENCY OF WIND DIRECTION  
VERSUS  
WEATHER CONDITIONS  
(FROM HOURLY OBSERVATIONS)

D13750 NORFOLK, VA  
PERIOD OF RECORD : 1945-1986  
LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : FEB

WIND DIR.	RAIN	RAIN SHOWRS	DRIZZLE	FREEZE RAIN FREEZE	SLEET " SHOWRS ICE	SNOW " GRAINS " PELLET	HAIL SMALL HAIL	THUNDER TOPNADO SQUALLS	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND DUST	NO WEATHER
N	8.8	.2	2.9	.3	.4	4.9	.0	.0	19.8	2.0	15.6	.9	.3	57.1
NNE	12.3	.4	3.1	.4	.4	3.9	.0	.1	19.4	1.1	17.9	.5	.4	54.9
NE	13.1	.3	1.9	.2	1.4	3.7	.0	.2	18.8	1.2	20.0	.0	.0	56.6
ENE	17.9	.0	.2	.0	1.0	2.7	.0	.2	17.1	2.5	20.3	.0	.0	53.6
E	17.2	.5	1.6	.0	1.3	2.9	.0	.0	20.2	1.6	25.5	.0	.0	49.1
ESE	16.5	.6	1.8	.0	.0	1.2	.0	.6	16.5	1.2	20.1	.0	.0	54.3
SE	9.8	2.0	.4	.0	.0	.0	.0	.8	11.1	2.0	19.3	.0	.0	59.4
SSE	10.9	1.6	.5	.0	.0	.5	.0	.0	7.4	3.8	20.2	.0	.0	62.8
S	8.5	1.6	1.0	.2	.0	.2	.0	.0	12.5	2.8	21.8	.0	.0	56.1
SSW	6.8	1.1	.6	.0	.0	.1	.0	.1	5.9	1.6	22.5	.0	.0	66.3
SW	6.3	.7	1.1	.0	.0	.0	.0	.0	10.9	3.0	25.1	.0	.0	58.4
WSW	5.6	.6	1.0	.0	.2	.2	.0	.2	7.4	2.0	21.6	.0	.6	65.9
W	4.1	.4	1.3	.0	.0	1.6	.0	.1	10.7	.5	12.3	.0	.0	74.1
WNW	3.5	.7	1.4	.2	.0	.5	.0	.0	10.0	.0	11.7	.0	.0	74.7
NW	4.0	.7	2.2	.0	.2	1.3	.0	.0	10.6	.9	10.4	.0	.0	75.4
NNW	3.4	.7	2.8	.0	.0	2.9	.0	.0	10.9	1.3	12.6	.0	.0	72.0
VAP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLM	3.6	.0	.8	.2	.2	1.1	.0	.0	14.5	8.2	24.2	.0	.2	56.1
TOTALS	78.3	62	154	11	26	19.1	0	9	126.3	189	1744	14	11	5897
% TOTAL	8.3	.7	1.6	.1	.3	1.9	.0	.1	13.3	2.0	18.4	.1	.1	62.2

TOTAL NUMBER OF OBSERVATIONS : 9480

NOTES :  
\* = PERCENT < .05



14 - PERCENTAGE FREQUENCY OF WIND DIRECTION  
VERSUS  
WEATHER CONDITIONS  
(FROM HOURLY OBSERVATIONS)

013750 NORFOLK, VA  
PERIOD OF RECORD : 1945-1986

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : MAR

WIND DIR.	RAIN	RAIN SHOWRS	ORIZZLE	FREEZE RAIN FREEZE	SLEET " SHOWRS ICE	SNOW " GRAINS " PELLET	HAIL SMALL HAIL	THUNDER TORNADO SQUALLS	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND DUST	NO WEATHER
N	9.3	.8	3.4	.0	.3	2.4	.0	.1	17.4	.4	13.6	.3	.0	60.7
NNE	9.8	1.6	4.2	.1	.5	2.7	.0	.4	16.1	.9	16.6	1.0	.0	58.3
NE	11.6	.3	3.8	.2	.8	1.6	.0	.2	16.6	.8	16.8	.2	.0	58.2
ENE	13.2	.5	3.9	.2	.8	1.4	.0	.5	17.0	1.1	15.4	.0	.0	57.0
E	14.7	2.1	3.0	.0	.4	1.1	.0	.5	18.1	.9	21.3	.0	.0	51.2
ESE	14.3	2.2	.4	.0	.0	.4	.0	.4	15.1	1.8	23.5	.0	.0	55.1
SE	12.0	2.5	1.5	.0	.0	.5	.0	.2	11.2	1.2	19.0	.0	.0	59.2
SSE	6.8	1.4	1.0	.0	.0	.2	.0	.8	8.1	1.4	15.5	.0	.0	69.4
S	6.7	3.8	1.0	.0	.0	.0	.0	.7	7.3	2.3	20.5	.0	.0	63.3
SSW	4.5	1.7	.4	.0	.0	.0	.0	.0	4.2	1.5	20.5	.0	.1	69.6
SW	4.0	1.9	.3	.0	.0	.0	.0	.2	4.3	1.5	22.9	.0	.5	67.1
WSW	2.1	2.5	.5	.0	.0	.4	.0	.2	5.3	.7	13.6	.0	.2	74.9
W	2.7	1.6	1.1	.0	.0	.5	.0	.3	7.5	.8	12.7	.0	.3	71.4
WNW	2.4	1.0	1.8	.0	.0	1.0	.0	.0	7.8	.6	7.8	.2	.3	78.4
NW	4.9	.6	2.0	.0	.0	1.4	.0	.0	8.6	.4	10.2	.0	.2	74.8
NNW	4.5	.9	1.7	.3	.0	2.1	.0	.3	10.6	.7	10.5	.0	.0	71.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLM	2.9	1.2	1.0	.0	.0	.0	.0	.2	11.9	7.3	29.4	.0	.0	54.8
TOTALS	744	161	199	5	18	101	0	29	1126	140	1749	12	10	6746
% TOTAL	7.1	1.5	1.9	.0*	.2	1.0	.0	.3	10.8	1.3	16.8	.1	.1	64.8

TOTAL NUMBER OF OBSERVATIONS : 10407

NOTES : PERCENT < .05  
\* = PERCENT < .05



14 - PERCENTAGE FREQUENCY OF WIND DIRECTION  
VERSUS  
WEATHER CONDITIONS  
(FROM HOURLY OBSERVATIONS)

013750 NORFOLK. VA  
PERIOD OF RECORD : 1945-1986

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : APR

WIND DIR.	RAIN	RAIN SHOWRS	DRIZZLE	FREEZE RAIN FREEZE	SLEET " SHOWRS ICE	SNOW " GRAINS " PELLET	HAIL SMALL HAIL	THUNDER TORNADO SQUALLS	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND DUST	NO WEATHER
N	6.0	4.5	2.8	.0	.0	.3	.0	1.2	7.1	.9	17.4	.0	.0	66.9
NNE	6.8	1.9	3.6	.0	.0	.1	.0	.3	12.1	.7	14.2	.0	.0	68.4
NE	6.4	1.5	3.5	.0	.0	.6	.0	.6	13.3	1.1	16.0	.0	.0	66.5
ENE	7.3	2.6	3.6	.0	.0	.0	.0	.3	13.5	.6	19.4	.0	.0	62.9
E	6.2	2.5	3.5	.0	.0	.0	.0	.5	14.8	1.0	19.8	.0	.0	60.8
ESE	11.3	1.0	.3	.0	.0	.0	.0	1.0	14.2	2.0	17.9	.0	.0	61.3
SE	6.6	1.6	.2	.0	.0	.0	.0	.0	7.0	2.1	16.4	.0	.0	71.2
SSE	5.8	2.3	.5	.0	.0	.0	.0	.2	5.9	2.3	14.9	.0	.0	71.2
S	5.3	4.4	.6	.0	.0	.0	.0	1.0	8.2	2.8	21.4	.0	.0	63.0
SSW	2.4	2.1	.5	.0	.0	.0	.0	.2	3.9	1.5	21.1	.0	.1	71.5
SW	2.3	2.8	.1	.0	.0	.0	.0	.4	2.6	1.2	18.4	.0	.1	73.4
WSW	2.1	2.6	.0	.0	.0	.0	.0	.3	3.1	1.2	20.6	.0	.2	71.4
W	1.9	1.9	.9	.0	.0	.0	.0	.1	2.7	.9	14.2	.0	.0	77.9
WNW	2.4	1.2	.0	.0	.0	.0	.0	.2	4.0	.7	9.0	.0	.0	81.9
NW	4.0	1.7	1.7	.0	.0	.5	.0	.2	4.8	.7	12.4	.0	.0	77.2
NNW	4.5	2.7	2.0	.0	.0	.5	.0	.7	6.8	.7	12.7	.0	.0	74.8
VAP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLM	1.9	1.3	.6	.0	.0	.0	.0	.0	9.4	5.6	20.0	.0	.0	67.0
TOTALS	464	242	144	0	1	10	0	43	757	153	1752	0	3	7025
% TOTAL	4.6	2.4	1.4	.0	.0*	.1	.0	.4	7.5	1.5	17.4	.0	.0*	69.7

TOTAL NUMBER OF OBSERVATIONS : 10079

NOTES :  
\* = PERCENT < .05



14 - PERCENTAGE FREQUENCY OF WIND DIRECTION  
VERSUS  
WEATHER CONDITIONS  
(FROM HOURLY OBSERVATIONS)

013750 NORFOLK, VA  
PERIOD OF RECORD : 1945-1986

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : MAY

WIND DIR.	RAIN	RAIN SHOWERS	DRIZZLE	FREEZE RAIN FREEZE	SLEET " SHOWERS ICE	SNOW " GRAINS " PELLET	HAIL SMALL HAIL	THUNDER TORNADO SQUALLS	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND DUST	NO WEATHER
N	5.1	3.9	1.8	.0	.0	.0	.0	1.4	12.6	1.6	19.3	.0	.0	64.3
NNE	6.4	2.8	3.6	.0	.0	.0	.0	1.1	11.8	.7	20.6	.0	.0	63.5
NE	9.2	1.8	2.8	.0	.0	.0	.0	.3	15.8	2.2	21.7	.0	.0	58.2
ENE	6.1	1.9	2.2	.0	.0	.0	.0	.9	12.8	.9	23.5	.0	.0	60.1
E	6.6	2.9	1.1	.0	.0	.0	.0	.4	12.3	1.1	24.5	.0	.0	58.6
ESE	6.0	4.0	.0	.0	.0	.0	.0	1.0	9.3	1.0	23.6	.0	.0	59.8
SE	6.7	2.7	.4	.0	.0	.0	.0	.4	9.4	1.8	20.6	.0	.0	65.5
SSE	4.2	3.4	.0	.0	.0	.0	.0	1.1	7.0	1.1	20.4	.0	.0	66.7
S	4.0	3.8	.4	.0	.0	.0	.0	1.3	8.5	1.8	26.0	.0	.0	59.7
SSW	2.0	2.8	.2	.0	.0	.0	.0	.7	3.6	2.6	24.3	.0	.0	67.2
SW	2.0	1.9	.2	.0	.0	.0	.0	.7	3.7	2.2	24.8	.0	.4	66.5
WSW	1.3	2.8	.2	.0	.0	.0	.0	.8	2.3	1.6	23.9	.0	.0	68.4
W	1.1	3.4	1.1	.0	.0	.0	.0	1.6	3.5	1.8	21.4	.0	.0	69.4
WNW	.7	4.0	.4	.0	.0	.0	.0	2.9	5.4	.4	19.9	.0	.0	68.2
NW	3.7	3.3	1.7	.0	.0	.0	.0	2.5	9.1	2.1	17.8	.0	.0	66.0
NNW	2.8	3.5	1.4	.0	.0	.0	.0	.4	6.0	2.5	15.1	.0	.0	72.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLM	3.9	2.0	.6	.0	.0	.0	.0	.0	15.7	6.1	26.3	.0	.0	54.5
TOTALS	44.1	298	108	0	0	0	0	95	891	193	2368	0	3	6638
% TOTAL	4.2	2.9	1.0	.0	.0	.0	.0	.9	8.6	1.9	22.7	.0	.0*	63.7

TOTAL NUMBER OF OBSERVATIONS : 10413

NOTES :  
\* = PERCENT < .05



14 - PERCENTAGE FREQUENCY OF WIND DIRECTION  
VERSUS  
WEATHER CONDITIONS  
(FROM HOURLY OBSERVATIONS)

013750 NORFOLK, VA  
PERIOD OF RECORD : 1945-1986

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : JUN

WIND DIR.	RAIN	RAIN SHOWERS	DRIZZLE	FREEZE RAIN	SLEET " SHOWERS	SNOW " GRAINS " PELLET	HAIL SMALL HAIL	THUNDER TORNADO SQUALLS	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND DUST	NO WEATHER
N	5.9	3.6	.7	.0	.0	.0	.0	1.1	7.2	.9	33.9	.0	.0	54.6
NNE	3.5	2.8	1.2	.0	.0	.0	.0	1.4	5.0	1.0	27.0	.0	.2	64.0
NE	4.5	2.0	2.0	.0	.0	.0	.0	.6	6.9	.7	24.8	.0	.0	65.0
ENE	5.6	1.5	1.8	.0	.0	.0	.0	.4	6.7	1.2	29.1	.0	.0	59.6
E	3.7	2.3	.5	.0	.0	.0	.0	1.5	5.8	1.4	30.4	.0	.0	59.9
ESE	3.4	4.6	1.4	.0	.0	.0	.0	1.7	4.6	2.9	28.6	.0	.3	60.0
SE	1.9	2.6	.0	.0	.0	.0	.0	.9	5.4	2.6	27.6	.0	.0	63.8
SSE	2.1	2.6	.2	.0	.0	.0	.0	1.1	4.7	4.0	30.7	.0	.0	63.1
S	2.1	4.4	.0	.0	.0	.0	.0	2.9	5.2	3.6	34.0	.0	.0	54.7
SSW	1.4	2.6	.1	.0	.0	.0	.0	1.0	3.1	2.2	33.8	.0	.0	58.9
SW	1.7	2.2	.2	.0	.0	.0	.0	.8	2.9	2.5	38.0	.0	.1	55.0
WSW	1.3	2.8	.3	.0	.0	.0	.0	1.5	3.4	2.8	38.5	.0	.0	53.1
W	.0	4.0	.6	.0	.0	.0	.0	1.7	3.2	1.9	39.2	.0	.0	53.2
WNW	.8	2.8	.4	.0	.0	.0	.0	2.0	2.8	.8	26.8	.0	.0	62.6
NW	.5	3.4	2.4	.0	.0	.0	.0	1.9	8.7	1.0	26.0	.0	.0	62.5
NNW	2.4	3.8	4.8	.0	.0	.0	.0	1.4	5.2	1.0	23.9	.0	.0	63.0
VAP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLM	1.1	1.3	.0	.0	.0	.0	.0	.4	8.8	9.0	33.8	.0	.0	55.8
TOTALS	250	280	72	0	0	0	0	127	497	246	3238	0	3	5907
% TOTAL	2.5	2.8	.7	.0	.0	.0	.0	1.3	4.9	2.4	32.1	.0	.0*	58.6

TOTAL NUMBER OF OBSERVATIONS : 10077

NOTES : \* = PERCENT < .05



# 14 - PERCENTAGE FREQUENCY OF WIND DIRECTION

VERSUS  
WEATHER CONDITIONS  
(FROM HOURLY OBSERVATIONS)

013750 NORFOLK, VA  
PERIOD OF RECORD : 1945-1986

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : JUL

WIND DIR.	RAIN	RAIN SHOWRS	DRIZZLE	FREEZE RAIN FREEZE	SLEET " SHOWRS ICE	SNOW " GRAINS " PELLET	HAIL SMALL HAIL	THUNDER TORNADO SQUALLS	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND DUST	NO WEATHER
N	1.4	5.3	.0	.0	.0	.0	.0	1.6	2.3	1.8	45.3	.0	.0	48.3
NNE	2.0	3.2	.4	.0	.0	.0	.0	1.0	2.6	.8	33.1	.0	.0	60.2
NE	3.4	3.4	.4	.0	.0	.0	.0	1.2	5.0	2.0	29.9	.0	.0	61.8
ENE	3.0	1.7	.6	.0	.0	.0	.0	.6	4.1	.9	26.1	.0	.0	67.3
E	4.1	2.7	.6	.0	.0	.0	.0	1.6	5.4	1.4	34.9	.0	.0	56.4
ESE	6.0	6.0	.0	.0	.0	.0	.0	4.3	5.7	3.9	29.1	.0	.0	59.2
SE	4.3	5.0	.0	.0	.0	.0	.0	2.5	3.3	3.0	35.1	.0	.0	55.1
SSE	2.4	3.2	.0	.0	.0	.0	.0	3.1	3.4	4.9	33.1	.0	.0	58.6
S	2.1	6.6	.1	.0	.0	.0	.0	2.0	4.6	3.7	39.2	.0	.0	51.4
SSW	1.4	2.1	.1	.0	.0	.0	.0	.9	3.1	2.9	39.8	.0	.0	55.1
SW	1.5	3.6	.2	.0	.0	.0	.0	1.5	3.1	2.7	34.7	.0	.0	57.3
WSW	1.7	4.4	.0	.0	.0	.0	.0	1.8	4.2	3.1	42.1	.0	.0	49.3
W	1.2	4.7	.0	.0	.0	.0	.0	3.2	4.2	2.7	49.3	.0	.2	41.5
WNW	1.5	8.8	.5	.0	.0	.0	.0	5.4	2.5	2.0	34.3	.0	.0	52.9
NW	1.3	3.2	.0	.0	.0	.0	.0	4.5	5.1	4.5	40.8	.0	.0	49.7
NNW	2.5	3.0	1.0	.0	.0	.0	.0	1.5	5.9	3.5	40.6	.0	.0	50.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLM	1.1	4.7	.2	.0	.0	.0	.0	1.4	8.4	7.7	40.9	.0	.0	48.4
TOTALS	225	404	21	0	0	0	0	188	427	312	3871	0	1	5675
% TOTAL	2.2	3.9	.2	.0	.0	.0	.0	1.8	4.1	3.0	37.2	.0	.0*	54.6

TOTAL NUMBER OF OBSERVATIONS : 10394

NOTES :  
\* = PERCENT < .05



14 - PERCENTAGE FREQUENCY OF WIND DIRECTION  
VERSUS  
WEATHER CONDITIONS  
(FROM HOURLY OBSERVATIONS)

013750 NORFOLK, VA  
PERIOD OF RECORD : 1945-1986

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : AUG

WIND DIR.	RAIN	RAIN SHOWRS	DRIZZLE	FREEZE RAIN	SLEET " SHOWRS	SNOW " GRAINS " PELLET	HAIL SMALL HAIL	THUNDER TORNADO SQUALLS	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND DUST	NO WEATHER
N	2.5	2.9	.2	.0	.0	.0	.0	1.7	5.2	2.3	44.6	.0	.0	48.1
NNE	2.6	1.6	.4	.0	.0	.0	.0	.7	2.2	.7	35.6	.0	.0	59.0
NE	7.0	2.4	.5	.0	.0	.0	.0	.9	4.3	.6	32.5	.0	.0	57.9
ENE	5.5	3.7	.2	.0	.0	.0	.0	.5	3.3	1.1	35.1	.0	.0	55.5
E	5.0	2.5	.3	.0	.0	.0	.0	1.4	3.5	1.8	35.0	.0	.0	52.9
ESE	7.0	5.8	.0	.0	.0	.0	.0	1.2	4.8	2.7	36.7	.0	.0	50.0
SE	1.8	4.3	.0	.0	.0	.0	.0	1.6	4.1	2.9	35.4	.0	.2	54.9
SSE	1.3	3.9	.0	.0	.0	.0	.0	2.9	5.3	6.1	40.7	.0	.0	49.4
S	1.7	3.6	.2	.0	.0	.0	.0	1.3	6.7	7.1	43.1	.0	.0	45.9
SSW	.7	3.2	.2	.0	.0	.0	.0	1.3	4.1	4.3	41.4	.0	.0	51.4
SW	.8	3.5	.1	.0	.0	.0	.0	1.7	3.7	4.2	42.2	.0	.0	51.0
WSW	1.4	3.8	.3	.0	.0	.0	.0	1.4	3.8	2.9	48.5	.0	.0	43.6
W	1.2	4.3	.0	.0	.0	.0	.0	3.3	4.5	2.1	49.8	.0	.0	41.9
WNW	1.5	5.6	.5	.0	.0	.0	.0	4.0	4.0	4.5	47.0	.0	.0	41.4
NW	1.8	4.0	.9	.0	.0	.0	.0	3.1	4.9	4.0	38.6	.0	.0	52.0
NNW	3.2	4.8	1.0	.0	.0	.0	.0	3.2	7.0	3.8	35.6	.0	.0	51.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLM	1.3	2.5	.1	.0	.0	.0	.0	1.1	9.1	12.7	44.5	.0	.0	42.6
TOTALS	268	352	26	0	0	0	0	161	485	411	4196	0	1	5243
% TOTAL	2.6	3.4	.2	.0	.0	.0	.0	1.5	4.7	4.0	40.3	.0	.0*	50.4

TOTAL NUMBER OF OBSERVATIONS : 10404

NOTES :  
\* = PERCENT < .05



14 - PERCENTAGE FREQUENCY OF WIND DIRECTION  
VERSUS  
WEATHER CONDITIONS  
(FROM HOURLY OBSERVATIONS)

013750 NORFOLK, VA  
PERIOD OF RECORD : 1945-1986

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : SEP

WIND DIR.	RAIN	RAIN SHOWRS	DRIZZLE	FREEZE RAIN FREEZE	SLEET " SHOWRS ICE	SNOW " GRAINS " PELLET	HAIL SMALL HAIL	THUNDER TORNADO SQUALLS	FUG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND DUST	NO WEATHER
N	6.0	2.7	.9	.0	.0	.0	.0	1.0	7.1	1.1	25.1	.0	.0	60.8
NNE	7.1	1.5	2.8	.0	.0	.0	.0	.3	7.5	.6	19.4	.0	.0	66.9
NE	6.7	2.4	.7	.0	.0	.0	.0	.4	6.0	.7	16.2	.0	.0	70.6
ENE	8.3	1.4	.6	.0	.0	.0	.0	.1	5.4	1.6	21.4	.0	.0	65.6
E	3.9	2.8	.0	.0	.0	.0	.0	.1	3.6	.8	28.8	.0	.0	64.9
ESE	9.7	1.8	.9	.0	.0	.0	.0	.6	6.1	2.7	24.9	.0	.0	61.7
SE	6.4	2.3	.3	.0	.0	.0	.0	.3	5.4	1.8	25.1	.0	.0	64.2
SSE	3.7	2.0	.2	.0	.0	.0	.0	.9	5.4	4.3	22.6	.0	.0	66.4
S	1.7	2.6	.0	.0	.0	.0	.0	.7	5.3	7.0	32.5	.0	.0	58.2
SSW	.8	1.6	.1	.0	.0	.0	.0	1.0	4.9	4.4	36.3	.0	.0	56.8
SW	1.2	1.2	.2	.0	.0	.0	.0	.2	5.5	4.2	38.3	.0	.0	55.1
WSW	.7	1.8	.2	.0	.0	.0	.0	.5	4.1	2.5	38.5	.0	.0	53.2
W	.3	3.4	.9	.0	.0	.0	.0	.6	5.0	4.1	37.6	.0	.0	50.5
WNW	4.5	4.0	.0	.0	.0	.0	.0	1.7	5.1	4.0	33.5	.0	.0	56.3
NW	2.2	1.3	2.6	.0	.0	.0	.0	.9	7.9	2.6	20.7	.0	.0	66.5
NNW	4.0	2.7	2.5	.0	.0	.0	.0	1.0	6.5	2.2	22.1	.0	.0	64.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLM	1.6	.8	.4	.0	.0	.0	.0	.5	7.7	10.7	31.6	.0	.1	56.1
TOTALS	428	200	75	0	0	0	0	56	588	321	275.4	0	1	6219
% TOTAL	4.2	2.0	.7	.0	.0	.0	.0	.6	5.8	3.2	27.3	.0	.0*	61.7

TOTAL NUMBER OF OBSERVATIONS : 10075

NOTES : PERCENT < .05  
\* = PERCENT < .05



14 - PERCENTAGE FREQUENCY OF WIND DIRECTION  
VERSUS  
WEATHER CONDITIONS  
(FROM HOURLY OBSERVATIONS)

013750 NORFOLK, VA  
PERIOD OF RECORD : 1945-1986

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : OCT

WIND DIR.	RAIN	RAIN SHOWRS	DRIZZLE	FREEZE RAIN FREEZE	SLEET " SHOWRS ICE	SNOW " GRAINS " PELLET	HAIL SMALL HAIL	THUNDER TORNADO SQUALLS	FUG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND DUST	NO WEATHER
N	5.9	1.2	3.9	.0	.0	.0	.0	.2	11.2	1.2	19.0	.0	.0	64.3
NNE	7.5	.4	2.8	.0	.0	.0	.0	.1	9.8	1.2	20.3	.0	.1	65.5
NE	6.1	.4	2.3	.0	.0	.0	.0	.0	9.5	1.5	15.7	.0	.0	68.6
ENE	9.0	1.5	2.4	.0	.0	.0	.0	.0	10.3	1.4	18.5	.0	.0	64.0
E	8.9	1.6	2.4	.0	.0	.0	.0	.0	11.3	3.1	19.0	.0	.0	57.9
ESE	11.8	.8	.8	.0	.0	.0	.0	.0	12.7	3.8	16.9	.0	.0	56.5
SE	7.0	1.8	.0	.0	.0	.0	.0	.4	8.5	2.9	20.2	.0	.0	64.7
SSE	5.3	1.4	.5	.0	.0	.0	.0	.7	7.7	5.3	24.1	.0	.0	61.5
S	6.1	2.2	.5	.0	.0	.0	.0	.2	8.6	6.6	28.0	.0	.0	53.7
SSW	2.2	1.2	.5	.0	.0	.0	.0	.2	6.9	4.3	30.7	.0	.0	58.7
SW	1.5	.9	.3	.0	.0	.0	.0	.2	6.8	6.6	31.4	.0	.0	57.5
WSW	1.7	2.4	1.0	.0	.0	.0	.0	.2	5.3	4.1	26.3	.0	.0	62.4
W	1.8	1.8	1.1	.0	.0	.0	.0	.2	4.8	3.7	23.5	.0	.0	68.0
WNW	3.9	1.4	2.5	.0	.0	.0	.0	.4	8.2	2.1	18.9	.0	.0	69.0
NW	4.4	.5	2.1	.0	.0	.0	.0	.2	5.3	1.6	12.6	.0	.0	76.1
NNW	5.7	2.4	2.9	.0	.0	.0	.0	.3	7.1	2.1	12.5	.0	.0	71.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLM	1.5	.4	.5	.0	.0	.0	.0	.2	12.5	12.3	29.9	.0	.0	51.7
TOTALS	546	125	183	.0	.0	.0	.0	.19	925	385	2281	.0	1	6537
% TOTAL	5.2	1.2	1.8	.0	.0	.0	.0	.2	8.9	3.7	21.9	.0	.0*	62.8

TOTAL NUMBER OF OBSERVATIONS : 10407

NOTES : # = PERCENT < .05



14 - PERCENTAGE FREQUENCY OF WIND DIRECTION  
VERSUS  
WEATHER CONDITIONS  
(FROM HOURLY OBSERVATIONS)

013750 NORFOLK, VA  
PERIOD OF RECORD : 1945-1986

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : NOV

WIND DIR.	RAIN	RAIN SHOWERS	DRIZZLE	FREEZE RAIN FREEZE	SLEET " SHOWERS ICE	SNOW " GRAINS " PELLET	HAIL SMALL HAIL	THUNDER TORNADO SQUALLS	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND DUST	NO WEATHER
N	8.2	.8	3.4	.0	.0	.4	.0	.1	13.4	1.2	14.0	.0	.0	64.7
NNE	11.7	.9	4.1	.0	.0	.0	.0	.1	14.1	.7	21.1	.0	.0	57.4
NE	9.9	.2	3.4	.0	.0	.2	.0	.0	12.8	.9	19.2	.0	.0	62.8
ENE	7.7	.7	1.2	.0	.2	.0	.0	.0	13.9	1.7	24.2	.0	.2	57.1
E	14.4	.3	2.5	.0	.0	.0	.0	.3	15.6	3.4	20.6	.0	.0	50.6
ESE	16.4	.0	3.4	.0	.0	.0	.0	.0	13.6	4.5	25.4	.0	.0	49.2
SE	15.6	1.2	.0	.0	.0	.0	.0	.0	10.0	4.4	26.0	.0	.0	49.6
SSE	8.4	1.3	1.3	.0	.0	.0	.0	.2	7.9	3.4	24.8	.0	.0	59.7
S	5.9	2.2	.3	.0	.0	.0	.0	.3	8.8	3.2	25.9	.0	.0	57.6
SSW	3.8	1.4	.2	.0	.0	.0	.0	.1	7.1	4.6	27.4	.0	.0	60.7
SW	2.3	1.5	1	.0	.0	.3	.0	.0	8.2	4.5	24.6	.0	.0	60.7
WSW	3.3	1.0	.2	.0	.0	.0	.0	.0	6.1	2.6	22.5	.0	.0	66.0
W	3.7	.8	.5	.0	.0	.2	.0	.0	4.8	1.6	15.4	.0	.0	74.2
WNW	3.6	1.0	1.6	.0	.0	.0	.0	.4	6.7	1.6	11.7	.0	.0	74.5
NW	5.4	.9	1.8	.0	.2	.2	.0	.5	6.5	1.1	8.2	.0	.0	78.5
NNW	6.0	1.1	1.5	.0	.2	.3	.0	.0	5.9	1.2	8.5	.0	.0	76.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLM	2.4	.3	.3	.0	.0	.0	.0	.0	13.5	10.8	25.4	.0	.0	51.1
TOTALS	659	100	148	0	2	10	0	12	971	303	2016	0	1	6344
% TOTAL	6.5	1.0	1.5	.0	.0*	.1	.0	.1	9.6	3.0	20.0	.0	.0*	63.0

TOTAL NUMBER OF OBSERVATIONS : 10077

NOTES : \* = PERCENT < .05



14 - PERCENTAGE FREQUENCY OF WIND DIRECTION  
VERSUS  
WEATHER CONDITIONS  
(FROM HOURLY OBSERVATIONS)

013750 NORFOLK, VA PERIOD OF RECORD : 1945-1986															LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT MONTH : DEC			
WIND DIR.	RAIN	RAIN SHOWRS	DRIZZLE	FREEZE RAIN FREEZE	SLEET " SHOWRS ICE	SNOW " GRAINS " PELLET	HAIL SMALL HAIL	THUNDER TORNADO SQUALLS	FOG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND DUST	NO WEATHER				
N	6.6	.5	3.9	.2	.2	1.7	.0	.0	15.4	.8	13.4	.4	.0	64.2				
NNE	11.8	.3	2.7	.0	.6	2.3	.0	.0	16.1	1.5	14.1	.3	.0	62.8				
NE	11.5	.5	1.3	.2	.7	1.0	.0	.0	12.5	.7	13.4	.0	.0	66.1				
ENE	15.9	.3	3.4	.0	.0	.6	.0	.0	15.0	.9	17.4	.0	.0	57.9				
E	18.7	.4	2.2	.0	.4	.7	.0	.0	17.9	1.5	26.5	.0	.0	47.8				
ESE	19.1	.0	1.3	.0	.0	.7	.0	.0	21.7	2.6	23.7	.0	.0	50.7				
SE	20.1	.0	3.0	.0	.0	.0	.0	.0	14.2	4.1	20.1	.0	.0	56.2				
SSE	16.6	2.0	1.4	.0	.0	.0	.0	.0	11.5	5.4	27.8	.0	.0	49.5				
S	10.2	1.5	.3	.0	.0	.3	.0	.0	10.7	4.0	29.9	.0	.0	50.2				
SSW	5.8	.6	.4	.0	.0	.2	.0	.0	7.4	2.5	25.3	.0	.0	59.2				
SW	4.1	.4	.4	.0	.0	.0	.0	.0	7.3	3.9	24.6	.0	.0	60.5				
WSW	3.5	1.7	1.2	.1	.0	.0	.0	.0	8.7	2.6	22.5	.0	.0	63.4				
W	4.2	.3	.7	.0	.0	.1	.0	.0	10.0	1.6	14.1	.0	.0	71.0				
WNW	5.0	.7	2.1	.0	.0	1.6	.0	.0	8.5	.7	11.6	.0	.0	73.8				
NW	4.4	.5	2.1	.0	.0	1.1	.0	.0	8.4	1.2	10.2	.2	.0	76.3				
NNW	4.4	.3	2.3	.0	.0	1.9	.0	.0	9.7	.5	11.9	.1	.0	73.6				
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0				
CLM	5.2	.0	.4	.0	.3	.0	.0	.0	12.6	7.9	23.7	.0	.0	56.6				
TOTALS	810	61	165	4	15	84	0	0	1176	249	1956	9	0	6550				
% TOTAL	7.8	.6	1.6	.0*	.1	.8	.0	.0	11.3	2.4	18.8	.1	.0	62.9				

TOTAL NUMBER OF OBSERVATIONS : 10412

NOTES : \* = PERCENT < .05



14 - PERCENTAGE FREQUENCY OF WIND DIRECTION  
VERSUS  
WEATHER CONDITIONS  
(FROM HOURLY OBSERVATIONS)

013750 NORFOLK, VA  
PERIOD OF RECORD : 1945-1986

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : ANN

WIND DIR.	RAIN	RAIN SHOWERS	DRIZZLE	FREEZE RAIN FREEZE	SLEET " SHOWRS ICE	SNOW " GRAINS " PELLET	HAIL SMALL HAIL	THUNDER TORNADO SQUALLS	FUG	ICE FOG GROUND FOG	SMOKE HAZE	BLOWING SNOW	BLOWING SAND DUST	NO WEATHER
N	7.0	1.8	2.7	.1	.2	1.8	.0	.5	12.6	1.2	20.2	.3	.0*	60.4
NNE	8.3	1.3	2.8	.1	.2	1.4	.0	.4	11.7	.9	20.7	.2	.1	61.3
NE	8.4	1.3	1.9	.1	.3	.9	.0	.3	10.9	1.1	20.1	.0*	.0	62.9
ENE	8.5	1.5	1.8	.0*	.2	.5	.0	.3	10.0	1.2	23.4	.0	.0*	60.3
E	8.3	2.1	1.5	.0*	.1	.3	.0	.6	10.6	1.5	26.5	.0	.0	56.6
ESE	10.2	2.8	.9	.1	.0	.2	.0	1.1	10.5	2.6	24.8	.0	.0*	56.8
SE	7.5	2.5	.5	.0	.0	.1	.0	.7	7.7	2.6	24.5	.0	.0*	60.9
SSE	5.7	2.4	.5	.1	.0	.1	.0	1.1	6.7	3.8	25.0	.0	.0	61.6
S	5.0	3.4	.4	.0*	.0*	.1	.0	1.0	7.9	4.1	29.8	.0	.0	55.3
SSW	2.9	1.8	.3	.0	.0*	.0*	.0	.5	4.8	2.9	29.7	.0	.0*	61.0
SW	2.5	2.0	.3	.0	.0*	.0*	.0	.6	5.2	3.2	30.0	.0	.1	59.7
WSW	2.7	2.3	.5	.0*	.0*	.1	.0	.7	5.3	2.4	28.8	.0	.1	60.6
W	2.5	2.0	.9	.0*	.0	.4	.0	.8	6.4	1.7	22.7	.1	.0*	65.3
WNW	3.2	1.8	1.4	.0*	.0	.5	.0	.8	7.1	1.1	15.9	.0*	.0*	70.9
NW	4.0	1.2	1.9	.1	.1	.9	.0	.7	7.3	1.3	14.6	.1	.0*	72.5
NNW	4.3	1.7	2.3	.1	.0*	1.2	.0	.5	8.3	1.4	15.2	.1	.0	70.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CLM	2.8	1.2	.5	.0*	.1	.1	.0	.3	11.4	9.0	30.1	.0	.0*	53.5
TOTALS	6425	2344	1488	54	100	631	0	745	10272	3112	29889	66	37	74942
% TOTAL	5.2	1.9	1.2	.0*	.1	.5	.0	.6	8.4	2.5	24.4	.1	.0*	61.2

TOTAL NUMBER OF OBSERVATIONS : 122390

NOTES :  
# = PERCENT < .05



# 15 - MEANS AND STANDARD DEVIATIONS

DRY-BULB TEMPERATURE (DEG F)  
(FROM HOURLY OBSERVATIONS)

013750 NORFOLK, VA													
PERIOD OF RECORD : 1945-1986													
LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT													
HOURS (LST)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
MEAN	39.0	39.9	46.3	54.5	62.7	70.5	74.9	74.4	70.0	60.2	50.8	42.2	57.2
S.D.	10.286	9.726	9.374	8.258	7.026	5.724	4.018	4.194	5.456	7.287	8.837	9.846	15.092
TOT OBS	1271	1186	1301	1260	1302	1260	1301	1302	1260	1301	1259	1302	15305
MEAN	38.0	38.9	44.9	53.2	61.5	69.4	73.8	73.5	69.1	59.2	49.7	41.2	56.2
S.D.	10.437	9.824	9.312	7.966	6.692	5.441	3.860	4.011	5.432	7.364	8.819	9.937	15.083
TOT OBS	1271	1186	1301	1260	1302	1260	1301	1301	1260	1301	1259	1302	15304
MEAN	37.4	38.2	44.9	54.4	63.8	72.1	75.9	75.1	70.0	59.3	49.1	40.7	56.9
S.D.	10.570	9.978	9.461	7.832	6.464	5.026	3.413	3.642	5.352	7.471	8.911	10.049	15.978
TOT OBS	1271	1186	1300	1260	1302	1260	1301	1302	1260	1301	1259	1302	15304
MEAN	40.8	42.4	50.2	60.5	69.4	77.5	81.3	80.4	75.3	64.9	54.4	44.7	62.0
S.D.	10.745	10.488	10.580	9.341	7.860	6.377	4.754	4.848	6.146	7.413	9.148	9.888	16.725
TOT OBS	1271	1186	1301	1260	1302	1259	1301	1302	1260	1301	1260	1302	15305
MEAN	44.4	46.2	53.8	64.0	72.5	80.6	84.3	83.3	78.0	67.9	58.1	48.3	65.2
S.D.	11.715	11.590	11.771	10.770	9.062	7.564	6.108	6.178	7.334	8.099	9.999	10.771	17.032
TOT OBS	1271	1186	1301	1260	1302	1259	1301	1302	1260	1301	1260	1302	15305
MEAN	44.7	46.7	54.4	64.4	72.6	80.6	84.0	82.8	77.5	67.5	57.6	48.1	65.2
S.D.	11.428	11.309	11.730	10.814	9.330	7.992	6.548	6.395	7.322	7.937	9.645	10.485	16.824
TOT OBS	1271	1186	1301	1260	1302	1260	1301	1302	1260	1301	1259	1302	15305
MEAN	41.5	43.2	50.4	59.7	68.2	76.5	80.0	78.6	73.2	63.2	53.6	44.9	61.2
S.D.	10.383	10.079	10.191	9.453	8.234	6.971	5.481	5.217	6.110	7.035	8.712	9.698	15.987
TOT OBS	1271	1185	1301	1260	1302	1260	1301	1302	1259	1300	1259	1301	15301
MEAN	40.0	41.0	48.0	56.5	64.7	72.5	76.6	75.8	71.0	61.1	51.6	43.4	58.7
S.D.	10.145	9.729	9.522	8.551	7.490	6.113	4.543	4.520	5.705	7.176	8.732	9.710	15.249
TOT OBS	1271	1185	1301	1260	1302	1260	1300	1302	1259	1301	1259	1301	15301
MEAN	40.7	42.1	49.1	58.4	66.9	75.0	78.9	78.0	73.0	62.9	53.1	44.2	60.3
S.D.	10.018	10.771	10.881	10.064	8.533	7.684	6.266	6.125	6.990	8.174	9.659	10.407	16.371
TOT OBS	1271	1186	1301	1260	1302	1260	1301	1302	1260	1301	1260	1302	15301
ALL	40.7	42.1	49.1	58.4	66.9	75.0	78.9	78.0	73.0	62.9	53.1	44.2	60.3
S.D.	10.018	10.771	10.881	10.064	8.533	7.684	6.266	6.125	6.990	8.174	9.659	10.407	16.371
TOT OBS	1271	1186	1301	1260	1302	1260	1301	1302	1260	1301	1260	1302	15301



## 16 - MEANS AND STANDARD DEVIATIONS

WET-BULB TEMPERATURE (DEG F)  
(FROM HOURLY OBSERVATIONS)013750 NORFOLK, VA  
PERIOD OF RECORD : 1945-1986  
LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT

HOURS (LST)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
MEAN	35.5	36.3	42.0	49.5	58.2	66.0	70.6	70.3	65.5	56.0	46.6	38.6	53.1
S.D.	10.474	9.744	9.361	8.262	7.025	5.933	4.383	4.668	6.469	8.339	9.558	10.165	15.052
TOT OBS	1270	1183	1299	1260	1300	1260	1301	1301	1260	1301	1259	1299	15293
MEAN	34.8	35.5	41.2	48.7	57.5	65.5	70.1	69.8	64.9	55.4	45.9	37.9	52.4
S.D.	10.653	9.907	9.593	8.348	7.078	5.888	4.369	4.661	6.466	8.445	9.563	10.305	15.176
TOT OBS	1270	1183	1300	1260	1302	1259	1301	1300	1260	1301	1259	1298	15293
MEAN	34.3	35.1	41.2	49.7	58.9	67.1	71.2	70.9	65.7	55.6	45.6	37.5	52.9
S.D.	10.764	10.109	9.792	8.302	6.931	5.529	4.081	4.500	6.374	8.445	9.626	10.389	15.732
TOT OBS	1270	1183	1299	1260	1302	1261	1301	1300	1260	1301	1259	1300	15296
MEAN	36.8	37.9	44.3	52.4	61.1	68.7	72.9	72.5	67.5	58.3	48.8	40.2	55.2
S.D.	10.685	10.174	10.082	8.626	7.266	5.902	4.483	4.899	6.482	8.138	9.469	10.150	15.376
TOT OBS	1270	1182	1300	1259	1302	1259	1301	1301	1260	1301	1260	1300	15295
MEAN	38.7	39.9	45.9	53.7	62.0	69.5	73.4	72.9	68.1	59.1	50.3	42.2	56.4
S.D.	10.766	10.167	9.936	8.519	7.302	6.076	4.747	5.001	6.570	7.977	9.446	10.219	14.913
TOT OBS	1271	1183	1301	1259	1301	1259	1301	1301	1260	1301	1260	1301	15298
MEAN	38.8	40.2	46.2	53.9	62.1	69.3	73.2	72.7	67.8	58.9	50.0	42.1	56.4
S.D.	10.404	9.703	9.539	8.198	7.169	6.039	4.560	4.919	6.443	7.845	9.199	9.994	14.670
TOT OBS	1271	1183	1301	1260	1301	1259	1300	1301	1260	1301	1258	1300	15295
MEAN	37.1	38.4	44.1	51.8	60.4	68.1	72.1	71.3	66.4	57.3	48.1	40.2	54.7
S.D.	10.170	9.490	9.156	8.138	7.160	6.024	4.520	4.926	6.488	7.916	9.278	9.935	14.833
TOT OBS	1270	1182	1301	1259	1301	1259	1300	1300	1258	1300	1257	1299	15286
MEAN	36.1	37.4	43.0	50.6	59.2	66.9	71.2	70.7	65.7	56.4	47.0	39.4	53.7
S.D.	10.159	9.535	9.190	8.143	7.114	5.934	4.443	4.793	6.527	8.181	9.455	10.041	14.914
TOT OBS	1270	1182	1301	1259	1301	1260	1298	1300	1258	1301	1258	1297	15285
MEAN	36.5	37.6	43.5	51.3	59.9	67.6	71.9	71.4	66.4	57.1	47.8	39.8	54.4
S.D.	10.624	10.009	9.759	8.516	7.311	6.078	4.598	4.924	6.571	8.282	9.596	10.283	15.159
TOT OBS	10162	9461	10402	10076	10410	10076	10403	10404	10076	10407	10070	10394	122341



## 17 - MEANS AND STANDARD DEVIATIONS

DEW-POINT TEMPERATURE (DEG F)  
(FROM HOURLY OBSERVATIONS)013750 NORFOLK, VA  
PERIOD OF RECORD : 1945-1986

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT

HOURS (LST)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
01	29.1 14.041 1270	30.0 13.155 1183	36.2 12.256 1299	44.2 10.754 1260	54.6 8.679 1300	63.3 7.134 1260	68.5 5.373 1301	68.2 5.692 1302	62.7 8.267 1260	52.4 10.801 1301	41.6 12.547 1259	32.6 13.510 1299	48.8 17.750 15294
04	28.8 14.058 1270	29.6 13.170 1183	35.8 12.495 1300	43.9 10.875 1260	54.3 8.817 1302	63.2 7.060 1259	68.2 5.329 1301	67.9 5.739 1301	62.3 8.235 1260	51.9 10.877 1301	41.3 12.340 1259	32.3 13.474 1298	48.4 17.790 15294
07	28.4 14.077 1270	29.3 13.326 1183	36.1 12.603 1299	44.7 10.970 1260	55.2 8.913 1302	64.2 6.961 1261	68.9 5.257 1301	68.8 5.758 1301	63.1 8.100 1260	52.2 10.700 1301	41.2 12.245 1259	32.1 13.445 1300	48.8 18.140 15297
10	29.8 14.128 1270	30.5 13.713 1182	36.8 13.324 1300	44.6 11.776 1259	55.1 9.722 1302	63.9 7.610 1259	68.9 5.867 1301	68.7 6.347 1302	63.0 8.506 1260	53.0 11.063 1301	42.5 12.598 1260	33.5 13.733 1300	49.3 17.985 15296
13	30.0 14.342 1271	30.5 13.784 1183	36.5 13.175 1301	44.2 11.629 1259	54.7 10.000 1301	63.5 7.937 1259	68.3 6.319 1301	68.1 6.450 1302	62.5 8.620 1260	52.3 11.364 1301	42.0 13.084 1260	33.7 14.071 1301	49.0 17.914 15299
16	29.8 14.158 1271	30.5 13.434 1183	36.5 12.877 1301	44.2 11.457 1260	54.8 9.764 1301	63.3 7.897 1259	68.2 6.125 1300	67.9 6.436 1302	62.2 8.601 1260	52.1 11.414 1301	41.8 13.028 1258	33.5 14.085 1300	48.9 17.810 15296
19	29.6 13.933 1271	30.6 13.118 1182	36.2 12.299 1301	44.1 11.144 1260	54.7 9.372 1301	63.4 7.729 1260	68.3 5.908 1301	67.7 6.362 1302	62.3 8.481 1258	52.4 10.880 1300	41.8 12.793 1258	33.2 13.835 1300	48.8 17.687 15294
22	29.2 13.754 1271	30.5 13.057 1182	36.4 12.099 1301	44.7 10.719 1260	55.0 8.870 1301	63.7 7.213 1260	68.6 5.483 1300	68.1 5.938 1302	62.6 8.298 1259	52.3 10.750 1301	41.5 12.704 1259	33.0 13.710 1298	48.9 17.697 15294
ALL	29.3 14.066 10164	30.2 13.351 9461	36.3 12.646 10402	44.3 11.172 10078	54.8 9.281 10410	63.6 7.456 10077	68.5 5.725 10406	68.2 6.108 10414	62.6 8.393 10077	52.3 10.984 10407	41.7 12.672 10072	33.0 13.742 10396	48.9 17.846 122364



## 18 - MEANS AND STANDARD DEVIATIONS

SEA-LEVEL PRESSURE (MB)  
(FROM HOURLY OBSERVATIONS)013750 NORFOLK, VA  
PERIOD OF RECORD : 1945-1986

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT

HOURS (LST)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
MEAN	1019.5	1018.6	1017.1	1016.6	1016.0	1016.0	1016.7	1017.0	1018.4	1019.2	1019.0	1020.0	1017.8
S.D.	8.700	9.006	8.159	7.494	5.645	4.853	4.144	3.992	5.190	6.419	7.546	8.312	6.961
TOT OBS	1271	1185	1292	1256	1271	1258	1301	1301	1260	1301	1260	1302	15258
MEAN	1019.5	1018.3	1016.7	1016.4	1015.8	1015.7	1016.4	1016.7	1018.1	1018.9	1018.9	1020.0	1017.6
S.D.	8.750	9.018	8.250	7.628	5.669	4.885	4.145	3.985	5.310	6.495	7.619	8.356	7.029
TOT OBS	1271	1186	1293	1256	1271	1258	1301	1301	1260	1301	1260	1302	15260
MEAN	1020.1	1019.1	1017.7	1017.5	1016.9	1016.6	1017.3	1017.6	1019.1	1019.8	1019.7	1020.6	1018.5
S.D.	8.793	9.112	8.478	7.820	5.762	4.931	4.135	3.979	5.250	6.617	7.697	8.444	7.091
TOT OBS	1271	1186	1293	1256	1271	1258	1301	1301	1260	1301	1260	1302	15260
MEAN	1021.2	1019.9	1018.2	1017.8	1017.2	1016.9	1017.6	1018.0	1019.6	1020.4	1020.3	1021.6	1019.1
S.D.	8.913	9.283	8.814	8.061	5.884	5.025	4.175	4.039	5.293	6.801	7.816	8.573	7.283
TOT OBS	1271	1186	1293	1256	1271	1258	1301	1301	1260	1301	1260	1302	15260
MEAN	1019.2	1018.4	1016.8	1016.6	1016.3	1016.3	1017.0	1017.4	1016.7	1019.0	1018.6	1019.6	1017.8
S.D.	8.914	9.370	8.822	8.087	5.943	5.053	4.218	4.041	5.374	6.921	7.832	8.592	7.250
TOT OBS	1271	1186	1292	1256	1271	1258	1301	1301	1260	1301	1260	1301	15258
MEAN	1018.8	1017.4	1015.6	1015.3	1015.2	1015.3	1016.0	1016.4	1017.7	1018.3	1018.1	1019.2	1017.0
S.D.	8.785	9.270	8.569	7.881	5.870	5.009	4.256	4.062	5.373	6.864	7.694	8.439	7.190
TOT OBS	1271	1186	1293	1256	1271	1258	1300	1301	1260	1301	1259	1302	15258
MEAN	1019.6	1018.2	1016.3	1015.8	1015.4	1015.4	1016.1	1016.5	1018.1	1019.0	1018.9	1020.0	1017.5
S.D.	8.652	9.139	8.249	7.580	5.665	4.847	4.156	3.984	5.229	6.600	7.598	8.318	7.063
TOT OBS	1271	1185	1293	1254	1270	1258	1300	1301	1259	1300	1260	1301	15252
MEAN	1020.0	1018.6	1017.2	1016.8	1016.2	1016.3	1017.0	1017.3	1018.7	1019.5	1019.3	1020.2	1018.1
S.D.	8.615	9.025	8.067	7.450	5.560	4.765	4.089	4.029	5.168	6.468	7.520	8.330	6.938
TOT OBS	1271	1185	1293	1255	1271	1258	1300	1301	1258	1301	1260	1301	15254
MEAN	1019.8	1018.6	1016.9	1016.6	1016.1	1016.1	1016.8	1017.1	1018.6	1019.3	1019.1	1020.1	1017.9
S.D.	8.789	9.176	8.460	7.788	5.784	4.949	4.195	4.048	5.302	6.673	7.689	8.444	7.127
TOT OBS	10168	9485	10342	10045	10167	10064	10405	10408	10077	10407	10079	10413	122060



## 19 - MEANS AND STANDARD DEVIATIONS

STATION PRESSURE (INCHES OF HG)  
(FROM HOURLY OBSERVATIONS)

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT

013750 NORFOLK, VA  
PERIOD OF RECORD : 1945-1986

HOURS (LST)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
MEAN	30.088	30.056	30.012	29.999	29.981	29.982	30.000	30.008	30.050	30.070	30.066	30.095	30.034
S.D.	.253	.264	.235	.218	.162	.140	.120	.115	.149	.188	.219	.245	.202
TOT OBS	1209	1158	1231	1226	1240	1228	1270	1270	1230	1238	1200	1240	14740
MEAN	30.086	30.048	29.999	29.992	29.977	29.975	29.994	30.000	30.042	30.063	30.063	30.095	30.027
S.D.	.254	.264	.240	.222	.163	.141	.120	.115	.152	.191	.222	.246	.204
TOT OBS	1209	1158	1230	1226	1240	1228	1270	1270	1230	1237	1200	1240	14738
MEAN	30.105	30.072	30.030	30.025	30.008	30.000	30.018	30.025	30.068	30.087	30.085	30.115	30.053
S.D.	.255	.268	.245	.228	.166	.142	.121	.115	.152	.194	.224	.249	.206
TOT OBS	1209	1158	1231	1226	1240	1228	1270	1270	1230	1238	1200	1240	14740
MEAN	30.136	30.095	30.043	30.034	30.016	30.008	30.027	30.039	30.084	30.105	30.106	30.142	30.069
S.D.	.259	.272	.256	.235	.170	.145	.122	.117	.154	.200	.228	.253	.212
TOT OBS	1209	1157	1231	1226	1240	1228	1270	1269	1230	1238	1200	1240	14738
MEAN	30.079	30.048	30.003	29.999	29.991	29.989	30.010	30.018	30.058	30.066	30.055	30.084	30.033
S.D.	.259	.274	.255	.235	.172	.146	.122	.116	.155	.202	.228	.253	.211
TOT OBS	1209	1158	1230	1226	1240	1228	1270	1269	1230	1238	1200	1240	14738
MEAN	30.067	30.021	29.968	29.962	29.959	29.962	29.982	29.990	30.030	30.045	30.041	30.074	30.008
S.D.	.254	.271	.248	.229	.169	.144	.123	.116	.155	.201	.223	.248	.209
TOT OBS	1209	1158	1231	1226	1240	1228	1269	1270	1229	1238	1199	1240	14737
MEAN	30.091	30.044	29.990	29.976	29.966	29.965	29.985	29.994	30.040	30.064	30.063	30.095	30.022
S.D.	.250	.267	.241	.221	.162	.140	.120	.115	.151	.193	.220	.245	.205
TOT OBS	1209	1157	1231	1224	1240	1228	1268	1270	1229	1238	1199	1238	14731
MEAN	30.100	30.056	30.015	30.004	29.990	29.991	30.008	30.016	30.059	30.079	30.075	30.103	30.041
S.D.	.250	.264	.234	.216	.159	.139	.119	.117	.149	.190	.218	.245	.202
TOT OBS	1209	1156	1230	1224	1240	1228	1267	1268	1228	1238	1199	1238	14725
MEAN	30.094	30.055	30.007	29.999	29.986	29.984	30.003	30.011	30.054	30.072	30.069	30.100	30.036
S.D.	.255	.269	.245	.227	.166	.143	.122	.117	.153	.196	.224	.249	.207
TOT OBS	9672	9260	9845	9804	9920	9824	10154	10156	9836	9903	9597	9916	117887



013750 NORFOLK, VA  
PERIOD OF RECORD : 1945-1986

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT

CEILING LESS THAN 5000 FEET & VISIBILITY LESS THAN 5.00 MILES

HOUR (LST)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	# YRS
01	31	32	28	24	27	23	21	24	25	31	29	28	27	42
04	32	33	29	24	31	30	27	30	31	34	31	29	30	42
07	39	41	35	31	37	39	39	46	43	43	41	38	39	42
10	40	36	30	29	30	29	33	37	34	33	32	36	33	42
13	32	32	31	28	30	28	31	32	32	32	28	30	30	42
16	31	33	30	28	27	26	29	31	28	28	27	30	29	42
19	30	30	27	25	24	23	25	28	26	28	26	28	27	42
22	30	30	25	21	23	23	21	22	23	29	28	27	25	42
ALL	33	33	29	26	29	28	28	31	30	32	30	31	30	42

CEILING LESS THAN 3000 FEET & VISIBILITY LESS THAN 3.00 MILES

HOUR (LST)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	# YRS
01	22	23	20	17	18	13	9	12	14	20	19	19	17	42
04	24	24	22	18	21	16	13	15	18	23	21	19	20	42
07	27	29	25	20	24	21	20	26	25	27	26	25	25	42
10	26	25	22	19	21	17	18	20	22	22	21	22	21	42
13	22	23	20	17	19	15	15	16	20	20	18	19	19	42
16	21	22	19	14	16	14	14	14	16	18	18	19	17	42
19	20	22	18	14	15	11	12	13	16	18	16	18	16	42
22	21	22	17	13	15	12	10	10	13	18	17	18	16	42
ALL	23	24	20	16	19	15	14	16	18	21	19	20	19	42

CEILING LESS THAN 1500 FEET & VISIBILITY LESS THAN 3.00 MILES

HOUR (LST)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	# YRS
01	18	17	15	12	14	9	6	7	10	15	13	15	13	42
04	18	19	17	13	16	13	9	11	13	16	15	15	15	42
07	23	25	21	15	20	17	15	21	20	21	20	21	20	42
10	22	20	17	13	14	10	10	11	13	14	15	17	15	42
13	18	17	13	9	10	7	6	6	10	12	12	14	11	42
16	15	17	13	9	10	7	6	6	9	12	11	14	11	42
19	15	17	13	9	11	8	8	8	10	11	10	13	11	42
22	16	17	13	10	11	7	6	6	9	13	12	14	11	42
ALL	18	19	15	11	13	10	8	9	12	14	13	15	13	42



013750 NORFOLK, VA  
PERIOD OF RECORD : 1945-1986

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT

## CEILING LESS THAN 500 FEET &amp; VISIBILITY LESS THAN 1 MILES

HOUR (LST)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	# YRS
01	8	9	6	5	5	2	0*	0*	1	4	4	6	4	42
04	8	9	7	5	6	3	1	2	3	5	6	8	5	42
07	8	10	8	6	5	2	1	2	4	7	7	8	6	42
10	7	8	6	3	2	1	0*	1	1	3	3	7	3	42
13	6	6	4	1	1	1	0*	0*	1	2	2	5	2	42
16	5	6	4	2	2	1	0*	0*	1	3	2	5	3	42
19	5	7	5	4	3	1	0*	0*	1	2	3	5	3	42
22	7	7	6	3	3	1	0*	0*	1	3	3	5	3	42
ALL	7	8	6	4	4	1	1	1	2	3	4	6	4	42

## CEILING LESS THAN 100 FEET &amp; VISIBILITY LESS THAN 1/2 MILES

HOUR (LST)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	# YRS
01	2	2	2	1	1	0*	0*	0*	0*	1	1	1	1	42
04	2	4	2	1	2	1	0*	1	1	2	3	3	2	42
07	2	4	3	1	1	0*	0*	0*	1	2	3	3	2	42
10	2	3	1	0*	0	0*	0	0	0	0*	1	1	1	42
13	1	1	1	0	0*	0*	0*	0*	0*	0*	0*	1	0*	42
16	1	1	1	0*	0*	0*	0*	0*	0	0*	0*	1	0*	42
19	1	2	1	1	0*	0	0	0	0*	1	0*	1	1	42
22	2	2	2	1	1	0*	0*	0*	0*	1	1	1	1	42
ALL	2	2	2	1	1	0*	0*	0*	0*	1	1	1	1	42

NOTE : \* = VALUE &gt; 0 AND &lt; 0.5 PERCENT



# 5 - DAILY TEMPERATURES

ELEMENT TYPE : MAXIMUM TEMPERATURE

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT

013750 NORFOLK, VA  
PERIOD OF RECORD : 1945-1986

## CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM DAILY OBSERVATIONS)

TEMP (DEG F)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
>= 100	.0	.0	.0	.0	.0	.3	.2	.5	.1	.0	.0	.0	.1
>= 95	.0	.0	.0	.0	.4	5.6	9.8	7.3	1.2	.0	.0	.0	2.0
>= 90	.0	.0	.0	1.0	5.1	22.2	35.7	27.6	10.0	.4	.0	.0	8.5
>= 85	.0	.0	1.1	6.0	17.2	44.9	62.8	55.8	26.5	3.3	.0	.0	18.1
>= 80	.0	.3	4.2	15.0	35.0	68.3	87.5	80.1	50.4	11.3	2.2	.0	29.5
>= 75	1.0	1.6	10.2	28.6	55.4	85.4	98.5	97.1	76.9	28.7	9.1	1.1	41.2
>= 70	4.0	6.0	18.6	42.0	73.1	96.7	99.8	99.8	93.2	51.3	21.0	5.7	51.0
>= 65	10.7	12.9	29.4	57.8	87.9	99.4	100.0	100.0	98.7	74.3	35.5	14.2	60.1
>= 60	21.1	23.4	42.3	76.7	96.6	100.0	100.0	100.0	99.9	92.2	54.3	25.7	69.5
>= 55	29.5	35.1	56.5	90.2	99.6	100.0	100.0	100.0	100.0	97.9	71.8	36.4	76.5
>= 50	40.5	47.2	72.7	97.8	100.0	100.0	100.0	100.0	100.0	99.2	87.8	53.7	83.4
>= 45	56.9	62.4	88.0	99.6	100.0	100.0	100.0	100.0	100.0	100.0	95.8	72.7	89.7
>= 40	74.9	81.5	96.2	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.2	86.4	94.9
>= 35	88.0	93.0	98.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.9	95.2	97.9
>= 30	96.7	98.6	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.1	99.5
>= 25	99.3	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.9	99.9
>= 20	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.9	100.0
>= 15	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
>= 10	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
MEAN	48.1	50.1	57.9	67.7	75.5	83.1	86.7	85.4	79.8	69.9	60.7	51.5	68.1
S.D.	11.782	11.538	11.803	10.334	8.832	7.538	5.955	6.111	7.044	7.826	9.685	10.822	16.471
TOT. OBS.	1271	1203	1330	1290	1333	1260	1269	1302	1230	1270	1258	1302	15318

NOTES :  
\* = PERCENT < .05



6 - DAILY TEMPERATURES

ELEMENT TYPE : MINIMUM TEMPERATURE

013750 NORFOLK, VA  
PERIOD OF RECORD : 1945-1986  
LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
(FROM DAILY OBSERVATIONS)

TEMP (DEG F)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
>= 80	.0	.0	.0	.0	.0	.8	2.1	1.2	.0	.0	.0	.0	.3
>= 75	.0	.0	.0	.0	.3	8.4	30.2	25.0	6.7	.2	.0	.0	5.9
>= 70	.0	.0	.0	.2	5.3	39.1	78.5	75.0	36.4	2.0	.1	.0	19.7
>= 65	.0	.0	.9	2.3	23.2	70.9	96.3	94.3	68.9	13.8	1.2	.1	30.9
>= 60	.5	.3	3.8	11.2	49.4	92.3	99.8	99.4	90.0	37.2	6.4	.7	40.8
>= 55	1.6	1.5	7.7	25.8	74.0	99.0	100.0	99.8	97.6	60.4	16.4	2.9	48.9
>= 50	4.2	3.8	14.3	50.9	92.0	99.8	100.0	100.0	100.0	81.7	31.1	8.3	57.2
>= 45	9.7	10.3	30.2	76.4	98.5	100.0	100.0	100.0	100.0	93.5	54.6	19.7	66.2
>= 40	24.6	27.8	59.6	94.2	99.9	100.0	100.0	100.0	100.0	98.1	77.5	38.2	76.8
>= 35	45.1	50.5	81.4	98.9	100.0	100.0	100.0	100.0	100.0	99.8	92.1	60.6	85.8
>= 30	68.4	74.0	95.0	99.9	100.0	100.0	100.0	100.0	100.0	100.0	98.6	81.6	93.2
>= 25	85.7	89.6	99.2	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.7	93.4	97.3
>= 20	95.2	97.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	98.8	99.3
>= 15	98.7	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.7	99.8
>= 10	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.9	100.0
>= 5	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
>= 0	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
>= -5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
MEAN	33.7	34.8	41.6	50.0	59.1	67.5	72.2	71.7	66.9	56.3	45.8	37.2	53.1
S.D.	8.811	8.141	8.183	7.224	6.653	5.386	3.896	4.103	5.593	7.467	8.231	8.582	15.546
TOT. OBS.	1271	1202	1330	1290	1333	1260	1269	1302	1230	1270	1258	1302	15317

NOTES :  
\* = PERCENT < .05



## 7 - DAILY TEMPERATURES

ELEMENT TYPE : MEAN TEMPERATURE

013750 NORFOLK, VA  
 PERIOD OF RECORD : 1945-1986  
 LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT

 CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE  
 (FROM DAILY OBSERVATIONS)

TEMP (DEG F)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
>= 90	.0	.0	.0	.0	.0	.5	.8	.4	.0	.0	.0	.0	.1
>= 85	.0	.0	.0	.0	.2	5.9	15.0	10.8	2.1	.0	.0	.0	2.8
>= 80	.0	.0	.0	.1	4.4	27.7	53.4	45.6	16.3	.7	.0	.0	12.3
>= 75	.0	.0	.8	3.5	18.2	58.3	86.3	81.9	44.4	4.9	.2	.0	24.8
>= 70	.0	.2	2.9	12.6	41.6	82.0	98.9	97.7	75.6	19.0	2.9	.1	36.1
>= 65	1.1	1.2	8.5	26.3	65.2	96.9	99.9	99.8	93.7	44.2	10.7	1.7	45.7
>= 60	4.0	4.2	16.7	45.1	85.6	99.5	100.0	100.0	99.3	71.3	24.2	6.1	54.7
>= 55	9.5	11.6	28.7	68.4	97.0	100.0	100.0	100.0	99.9	89.8	45.0	16.4	64.0
>= 50	21.2	24.0	46.9	89.3	99.4	100.0	100.0	100.0	100.0	97.5	67.0	28.5	72.9
>= 45	33.2	40.2	71.1	97.7	100.0	100.0	100.0	100.0	100.0	99.4	85.6	47.2	81.3
>= 40	54.2	59.7	88.3	99.6	100.0	100.0	100.0	100.0	100.0	100.0	95.9	70.5	89.1
>= 35	73.4	81.2	96.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.3	86.8	94.9
>= 30	89.0	93.4	99.1	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.9	95.2	98.1
>= 25	96.9	99.0	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.0	99.6
>= 20	99.3	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.8	99.9
>= 15	99.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.9	100.0
>= 10	99.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
>= 5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
MEAN	41.1	42.7	50.0	59.1	67.5	75.5	79.7	78.8	73.6	63.4	53.5	44.6	60.8
S.D.	9.778	9.279	9.444	8.150	7.142	5.986	4.467	4.677	5.790	6.934	8.366	9.188	15.686
TOT. OBS.	1271	1202	1330	1290	1333	1260	1269	1302	1230	1270	1258	1302	15317

 NOTES :  
 \* = PERCENT < .05



## 8 - DAILY AMOUNTS

PERCENTAGE FREQUENCY OF  
PRECIPITATION

(FROM DAILY OBSERVATIONS)

013750 NORFOLK, VA  
PERIOD OF RECORD : 1945-1986

LAT. : 36 57N LONG. : 76 17W ELEV. : 15

	NONE	TRACE	.01	<=.05	<=.10	<=.25	<=.50	<=1.0	<=2.5	<=5.0	<=10.0	<=20.0	>20.0	>=.01	PERCENT OF DAYS WITH AMOUNTS	TOTAL NO. OF OBS	TOTAL PRECIPITATI (INCHES)	MEAN	HI	LOW
JAN	54.4	14.1	2.3	5.0	4.4	6.5	6.7	5.0	1.6	.1	.0	.0	.0	31.5	1269	.30	6.26	.88		
FEB	52.3	13.3	2.4	5.8	3.2	7.8	7.6	5.5	2.0	.1	.0	.0	.0	34.4	1202	.32	10.20	.62		
MAR	53.3	14.4	3.2	5.0	3.5	7.7	6.2	5.1	1.6	.0	.0	.0	.0	32.4	1331	.31	6.18	.41		
APR	53.6	14.9	1.9	6.7	5.3	6.9	5.0	4.0	1.6	.1	.0	.0	.0	31.5	1290	.27	6.67	.48		
MAY	53.5	15.2	2.3	5.5	3.2	6.8	6.5	4.8	2.2	.1	.0	.0	.0	31.3	1302	.33	9.28	.63		
JUN	59.1	11.8	2.5	5.1	3.5	6.2	5.2	3.8	2.4	.4	.1	.0	.0	29.2	1259	.33	9.61	.39		
JUL	52.0	14.2	2.6	5.6	4.3	6.6	5.1	5.4	3.5	.6	.1	.0	.0	33.8	1269	.46	12.17	.98		
AUG	56.3	12.6	2.3	5.5	3.9	7.0	4.7	3.8	3.1	.8	.2	.0	.0	31.1	1301	.42	10.88	.94		
SEP	64.5	11.1	1.6	4.8	2.7	4.4	3.2	4.7	2.0	.9	.2	.0	.0	24.5	1230	.38	18.24	.52		
OCT	64.4	12.4	1.7	4.3	3.1	4.9	4.4	2.2	2.1	.4	.0	.0	.0	23.1	1270	.26	9.54	.21		
NOV	59.9	13.8	2.8	4.0	3.2	4.8	5.5	4.2	1.9	.0	.0	.0	.0	26.3	1257	.26	6.30	.39		
DEC	60.6	11.7	2.1	3.8	3.4	5.8	6.2	4.5	1.8	.0	.0	.0	.0	27.7	1301	.29	6.59	.71		
ANN	57.0	13.3	2.3	5.1	3.6	6.3	5.5	4.4	2.1	.3	.0*	.0	.0	29.7	15281	3.96	67.79	21.79		

## NOTES :

.001, .0 OR 0.1 = ZERO PRECIPITATION \*SNOWFALL OR SNOW DEPTH MEASURED BUT A TRACE WAS NOTED

\* = PERCENT &lt; .05

ANNUAL HI AND LOW VALUES ARE DERIVED FROM ANNUAL TOTALS.



PERCENTAGE FREQUENCY OF  
SNOW FALL

(FROM DAILY OBSERVATIONS)

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT

013750 NORFOLK, VA  
PERIOD OF RECORD : 1945-1986

	NONE	TRACE	INCHES										PERCENT OF DAYS WITH AMOUNTS	TOTAL NO. OF OBS	TOTAL PRECIPITATION (INCHES)		
			<1-.4	.5-1.4	<2.4	<3.4	<4.4	<= 6.4	<10.4	<15.4	<25.4	<50.4	>50.4		MEAN	HI	LOW
JAN	88.0	7.8	1.3	1.1	.6	.3	.5	.4	.1	.0	.0	.0	.0	1270	2.4	17.0	.0
FEB	88.4	7.5	1.2	1.4	.5	.2	.2	.4	.2	.0	.0	.0	.0	1201	2.1	16.8	.0
MAR	94.4	4.0	.4	.3	.5	.2	.0	.1	.1	.1	.0	.0	.0	1331	1.2	19.0	.0
APR	99.3	.6	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1290	.07	.2	.0
MAY	100.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1302	.0	.0	.0
JUN	99.9	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1260	.07	.07	.0
JUL	100.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1268	.0	.0	.0
AUG	100.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1302	.0	.0	.0
SEP	100.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1230	.0	.0	.0
OCT	99.8	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1270	.07	.07	.0
NOV	99.0	.7	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	1257	.1	1.8	.0
DEC	93.9	4.9	.3	.4	.2	.1	.2	.0	.0	.0	.0	.0	.0	1301	.7	15.6	.0
ANN	96.9	2.1	.3	.3	.2	.1	.1	.1	.0*	.0*	.0	.0	.0	15282	6.4	45.4	.07

NOTES :  
 .00T, .0 OR 0.T = ZERO PRECIPITATION, SNOWFALL OR SNOW DEPTH MEASURED BUT A TRACE WAS NOTED  
 \* = PERCENT < .05  
 ANNUAL HI AND LOW VALUES ARE DERIVED FROM ANNUAL TOTALS.



PERCENTAGE FREQUENCY OF  
SNOW DEPTH

(FROM DAILY OBSERVATIONS)

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT

013750 NORFOLK, VA  
PERIOD OF RECORD : 1945-1986

	NONE	TRACE	1	2	3	4-6	7-12	13-24	25-36	37-48	49-60	60-120	> 120	PERCENT OF DAYS WITH AMOUNTS	TOTAL NO. OF OBS	TOTAL PRECIPITATION (INCHES)		
																MEAN	HI	LOW
JAN	92.6	3.1	1.8	.9	.5	.3	.6	.1	.0	.0	.0	.0	.0	>= 1	1179	15.	15.	0.
FEB	93.1	2.4	1.6	1.1	.6	.8	.3	.0	.0	.0	.0	.0	.0	4.2	1063	10.	10.	0.
MAR	98.5	.6	.1	.4	.0	.1	.2	.2	.0	.0	.0	.0	.0	4.4	1177	15.	15.	0.
APR	100.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	1140	0.	0.	0.
MAY	100.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1178	0.	0.	0.
JUN	100.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1140	0.	0.	0.
JUL	100.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1147	0.	0.	0.
AUG	100.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1178	0.	0.	0.
SEP	100.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1110	0.	0.	0.
OCT	100.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1147	0.	0.	0.
NOV	99.9	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	1168	1.	1.	0.
DEC	97.9	1.0	.2	.2	.1	.0	.5	.0	.0	.0	.0	.0	.0	1.1	1209	12.	12.	0.
ANN	98.5	.6	.3	.2	.1	.1	.1	.0*	.0	.0	.0	.0	.0	.9	13836	15.	15.	0.1

NOTES : .001, .0 OR 0.1 = ZERO PRECIPITATION .SNOWFALL OR SNOW DEPTH MEASURED BUT A TRACE WAS NOTED

\* = PERCENT &lt; .05

ANNUAL HI AND LOW VALUES ARE DERIVED FROM ANNUAL TOTALS.



## 21 - DAILY EXTREME AMOUNTS

013750 NORFOLK, VA

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
PERIOD OF RECORD : 1945-1986

MONTH : JAN

DAY	PRECIPITATION		SNOWFALL		SNOW DEPTH	
	INCHES	MM	INCHES	MM	INCHES	MM
1	.95	24	T	T	0.	0
2	1.74	44	T	T	0.	0
3	2.15	55	T	T	0.	0
4	.67	17	T	T	0.	0
5	1.20	30	4.60	117	3.	76
6	1.19	30	1.00	25	2.	51
7	.71	18	2.10	53	15.	381
8	2.55	65	7.00	178	T	T
9	1.03	26	.40	10	7.	178
10	1.27	32	4.00	102	7.	178
11	.71	18	3.00	76	3.	76
12	.81	21	.30	8	2.	51
13	1.64	42	.20	5	5.	127
14	1.30	33	1.90	48	4.	102
15	.74	19	2.10	53	2.	51
16	.93	24	3.90	99	1.	25
17	.83	21	2.50	64	2.	51
18	.90	23	T	T	1.	25
19	1.30	33	4.50	114	T	T
20	1.12	28	3.50	89	2.	51
21	1.42	36	T	T	1.	25
22	1.00	25	T	T	T	T
23	.55	14	.20	5	T	T
24	.63	16	2.50	64	1.	25
25	.85	22	1.10	28	T	T
26	.60	15	6.00	152	2.	51
27	1.09	28	3.60	91	8.	203
28	1.19	30	5.20	132	8.	203
29	.57	14	3.00	76	8.	203
30	.41	10	3.60	91	10.	254
31	1.23	31	5.00	127	11.	279
MONTH	2.55	65	7.00	178	15.	381

NOTES :  
T = TRACE AMOUNTS (<.01, OR <.5, OR < 1.0 INCHES)  
+ = VALUE OCCURRED IN PREVIOUS YEAR(S).

THIS SYMBOL OMITTED FOR SNOWFALL AND SNOW DEPTH AMOUNTS = 0.0



## 21 - DAILY EXTREME AMOUNTS

013750 NORFOLK, VA

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
PERIOD OF RECORD : 1945-1986

MONTH : FEB

DAY	PRECIPITATION		SNOWFALL		SNOW DEPTH	
	INCHES	MM	INCHES	MM	INCHES	MM
1	.89	23	2.10	53	6.	152
2	1.67	42	6.00	152	5.	127
3	1.52	39	3.00	76	4.	102
4	.85	22	.50	13	3.	76
5	.35	9	T	T	3.	76
6	.93	24	9.00	229	3.	76
7	1.13	29	5.00	127	10.	254
8	1.35	34	T	T	8.	203
9	.69	18	5.00	127	2.	51
10	1.43	36	5.80	147	9.	229
11	2.21	56	2.00	51	5.	127
12	1.26	32	1.00	25	4.	102
13	1.82	46	4.00	102	2.	51
14	2.68	68	8.00	203	T	T
15	.84	21	.40	10	1.	25
16	1.40	36	.80	20	T	T
17	1.03	26	T	T	T	T
18	.63	16	6.30	160	0.	0
19	.81	21	.50	13	5.	127
20	.60	15	T	T	1.	25
21	2.13	54	.10	3	0.	0
22	.69	18	.60	15	1.	25
23	.52	13	3.50	89	0.	0
24	1.14	29	T	T	0.	0
25	1.31	33	T	T	0.	0
26	.98	25	.60	15	0.	0
27	1.77	45	1.00	25	4.	102
28	.88	22	T	T	T	T
29						
30						
31						
MONTH	2.68	68	9.00	229	10.	254

NOTES :  
T = TRACE AMOUNTS (<.01. OR <.5. OR < 1.0 INCHES)  
+ = VALUE OCCURRED IN PREVIOUS YEAR(S).

THIS SYMBOL OMITTED FOR SNOWFALL AND SNOW DEPTH AMOUNTS = 0.0



## 21 - DAILY EXTREME AMOUNTS

013750 NORFOLK, VA

 LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
 PERIOD OF RECORD : 1945-1986

MONTH : MAR

DAY	PRECIPITATION		SNOWFALL		SNOW DEPTH	
	INCHES	MM	INCHES	MM	INCHES	MM
1	1.29	33	8.00	203	2.	51
2	1.10	28	11.00	279	12.	305
3	.82	21	2.00	51	15.	381
4	.62	16	T	T	13.	330
5	1.15	29	T	T	0.	0
6	2.45	62	1.00	25	0.	0
7	.92	23	.30	8	T	T
8	1.09	28	T	T	T	T
9	1.29	33	3.00	76	T	T
10	.95	24	1.90	48	T	T
11	.94	24	T	T	4.	102
12	.79	20	T	T	0.	0
13	.66	17	.30	8	0.	0
14	1.76	45	.00	0	0.	0
15	.72	18	T	T	0.	0
16	1.48	38	2.00	51	0.	0
17	1.78	45	2.00	51	2.	51
18	1.22	31	T	T	0.	0
19	1.88	48	T	T	0.	0
20	1.03	26	T	T	0.	0
21	1.58	40	T	T	0.	0
22	.91	23	T	T	0.	0
23	1.24	31	T	T	0.	0
24	1.74	44	T	T	0.	0
25	.78	20	6.40	163	T	T
26	1.26	32	1.00	25	2.	51
27	.88	22	T	T	0.	0
28	1.56	40	.00	0	0.	0
29	.84	21	.00	0	0.	0
30	.78	20	T	T	0.	0
31	.88	22	.00	0	0.	0
MONTH	2.45	62	11.00	279	15.	381

## NOTES :

T = TRACE AMOUNTS (&lt;.01, OR &lt;.5, OR &lt; 1.0 INCHES)

+ = VALUE OCCURRED IN PREVIOUS YEAR(S).

THIS SYMBOL OMITTED FOR SNOWFALL AND SNOW DEPTH AMOUNTS = 0.0



## 21 - DAILY EXTREME AMOUNTS

013750 NORFOLK, VA

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
PERIOD OF RECORD : 1945-1986

MONTH : APR

DAY	PRECIPITATION		SNOWFALL		SNOW DEPTH	
	INCHES	MM DATE	INCHES	MM DATE	INCHES	MM DATE
1	.82	21 1948	T	1964	0.	0 1986
2	.59	15 1959	.00	0 1986	0.	0 1986
3	.64	16 1979	.00	0 1986	0.	0 1986
4	1.08	27 1979	T	1954	0.	0 1986
5	.94	24 1968	.00	0 1986	0.	0 1986
6	.93	24 1969	.00	0 1986	0.	0 1986
7	1.08	27 1948	.00	0 1986	0.	0 1986
8	1.30	33 1957	.20	5 1972	0.	0 1986
9	.65	17 1947	.00	0 1986	0.	0 1986
10	.66	17 1958	.00	0 1986	0.	0 1986
11	1.14	29 1956	T	1956	0.	0 1986
12	2.16	55 1947	.00	0 1986	0.	0 1986
13	2.46	62 1979	T	1957	0.	0 1986
14	.77	20 1984*	.00	0 1986	0.	0 1986
15	2.23	57 1975	.00	0 1986	0.	0 1986
16	.63	16 1983	.00	0 1986	0.	0 1986
17	.41	10 1967	.00	0 1986	0.	0 1986
18	.48	12 1983	T	1983	0.	0 1986
19	.27	7 1951	T	1983	0.	0 1986
20	.40	10 1981	.00	0 1986	0.	0 1986
21	.31	8 1950	.00	0 1986	0.	0 1986
22	1.31	33 1972	.00	0 1986	0.	0 1986
23	1.23	31 1984	.00	0 1986	0.	0 1986
24	2.68	68 1983	T	1983	0.	0 1986
25	.83	21 1946	.00	0 1986	0.	0 1986
26	2.02	51 1979	.00	0 1986	0.	0 1986
27	.70	18 1980	.00	0 1986	0.	0 1986
28	.96	24 1980	T	1954	0.	0 1986
29	1.26	32 1986	.00	0 1986	0.	0 1986
30	1.60	41 1953	.00	0 1986	0.	0 1986
31						
MONTH	2.68	68 1983	.20	5 1972	0.	0 1986

NOTES :  
 T = TRACE AMOUNTS (<.01, OR <.5, OR < 1.0 INCHES)  
 \* = VALUE OCCURRED IN PREVIOUS YEAR(S).

THIS SYMBOL OMITTED FOR SNOWFALL AND SNOW DEPTH AMOUNTS = 0.0



## 21 - DAILY EXTREME AMOUNTS

013750 NORFOLK, VA

 LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
 PERIOD OF RECORD : 1945-1986

MONTH : MAY

DAY	PRECIPITATION		SNOWFALL		SNOW DEPTH	
	INCHES	MM	INCHES	MM	INCHES	MM
1	.72	18	.00	0	0.	0
2	1.46	37	.00	0	0.	0
3	1.09	28	.00	0	0.	0
4	1.14	29	.00	0	0.	0
5	1.04	26	.00	0	0.	0
6	1.98	50	.00	0	0.	0
7	.92	23	.00	0	0.	0
8	.81	21	.00	0	0.	0
9	.32	8	.00	0	0.	0
10	.79	20	.00	0	0.	0
11	1.83	46	.00	0	0.	0
12	.79	20	.00	0	0.	0
13	1.86	47	.00	0	0.	0
14	1.12	28	.00	0	0.	0
15	.49	12	.00	0	0.	0
16	.89	23	.00	0	0.	0
17	.95	24	.00	0	0.	0
18	1.45	37	.00	0	0.	0
19	.88	22	.00	0	0.	0
20	2.24	57	.00	0	0.	0
21	.76	19	.00	0	0.	0
22	.48	12	.00	0	0.	0
23	.81	21	.00	0	0.	0
24	1.22	31	.00	0	0.	0
25	1.72	44	.00	0	0.	0
26	2.04	52	.00	0	0.	0
27	1.59	40	.00	0	0.	0
28	1.58	40	.00	0	0.	0
29	1.29	33	.00	0	0.	0
30	2.26	57	.00	0	0.	0
31	2.79	71	.00	0	0.	0
MONTH	2.79	71	.00	0	0.	0

## NOTES :

 T = TRACE AMOUNTS (<.01, OR <.5, OR < 1.0 INCHES)  
 + = VALUE OCCURRED IN PREVIOUS YEAR(S).

THIS SYMBOL OMITTED FOR SNOWFALL AND SNOW DEPTH AMOUNTS = 0.0



## 21 - DAILY EXTREME AMOUNTS

013750 NORFOLK, VA

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
PERIOD OF RECORD : 1945-1986

MONTH : JUN

DAY	PRECIPITATION		SNOWFALL		SNOW DEPTH	
	INCHES	MM	INCHES	MM	INCHES	MM
1	1.00	25	.00	0	0.	0
2	5.21	132	.00	0	0.	0
3	1.75	44	.00	0	0.	0
4	1.04	26	.00	0	0.	0
5	2.87	73	.00	0	0.	0
6	1.68	43	.00	0	0.	0
7	1.13	29	.00	0	0.	0
8	1.41	36	.00	0	0.	0
9	.96	24	.00	0	0.	0
10	.83	21	.00	0	0.	0
11	2.70	69	.00	0	0.	0
12	1.60	41	.00	0	0.	0
13	1.71	43	.00	0	0.	0
14	.71	18	.00	0	0.	0
15	1.80	46	T	1986	0.	0
16	1.37	35	.00	0	0.	0
17	.93	24	.00	0	0.	0
18	2.92	74	.00	0	0.	0
19	.60	15	.00	0	0.	0
20	1.02	26	.00	0	0.	0
21	.88	22	.00	0	0.	0
22	1.35	34	.00	0	0.	0
23	1.94	49	.00	0	0.	0
24	.79	20	.00	0	0.	0
25	1.44	37	.00	0	0.	0
26	1.71	43	.00	0	0.	0
27	.63	16	.00	0	0.	0
28	3.21	82	.00	0	0.	0
29	2.67	68	.00	0	0.	0
30	.56	14	.00	0	0.	0
31						
MONTH	5.21	132	T	T	0.	0

## NOTES :

T = TRACE AMOUNTS (&lt;.01, OR &lt;.5, OR &lt; 1.0 INCHES)

+ = VALUE OCCURRED IN PREVIOUS YEAR(S).

THIS SYMBOL OMITTED FOR SNOWFALL AND SNOW DEPTH AMOUNTS = 0.0



## 21 - DAILY EXTREME AMOUNTS

013750 NORFOLK, VA

 LAT. : 36.57N LONG. : 76 17W ELEV. : 15 FT  
 PERIOD OF RECORD : 1945-1986

MONTH : JUL

DAY	PRECIPITATION		SNOWFALL		SNOW DEPTH	
	INCHES	MM	INCHES	MM	INCHES	MM
1	1.06	27	.00	0	0.	0
2	1.11	28	.00	0	0.	0
3	1.81	46	.00	0	0.	0
4	1.66	42	.00	0	0.	0
5	4.08	104	.00	0	0.	0
6	1.09	28	.00	0	0.	0
7	.54	14	.00	0	0.	0
8	.59	15	.00	0	0.	0
9	2.98	76	.00	0	0.	0
10	1.24	31	.00	0	0.	0
11	.78	20	.00	0	0.	0
12	2.65	67	.00	0	0.	0
13	1.28	33	.00	0	0.	0
14	2.09	53	.00	0	0.	0
15	1.39	35	.00	0	0.	0
16	2.04	52	.00	0	0.	0
17	.86	22	.00	0	0.	0
18	.93	24	.00	0	0.	0
19	2.48	63	.00	0	0.	0
20	.46	12	.00	0	0.	0
21	3.07	78	.00	0	0.	0
22	2.10	53	.00	0	0.	0
23	.86	22	.00	0	0.	0
24	1.32	34	.00	0	0.	0
25	2.50	64	.00	0	0.	0
26	2.25	57	.00	0	0.	0
27	3.31	84	.00	0	0.	0
28	6.49	165	.00	0	0.	0
29	2.78	71	.00	0	0.	0
30	2.52	64	.00	0	0.	0
31	1.52	39	.00	0	0.	0
MONTH	6.49	165	.00	0	0.	0

 NOTES :  
 T = TRACE AMOUNTS (<.01. OR <.5. OR < 1.0 INCHES)  
 + = VALUE OCCURRED IN PREVIOUS YEAR(S).

THIS SYMBOL OMITTED FOR SNOWFALL AND SNOW DEPTH AMOUNTS = 0.0



## 21 - DAILY EXTREME AMOUNTS

013750 NORFOLK, VA

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
PERIOD OF RECORD : 1945-1986

MONTH : AUG

DAY	PRECIPITATION		SNOWFALL		SNOW DEPTH	
	INCHES	MM	INCHES	MM	INCHES	MM
1	1.84	47	0.00	0	0.	0
2	1.14	29	0.00	0	0.	0
3	2.71	69	0.00	0	0.	0
4	2.18	55	0.00	0	0.	0
5	2.93	74	0.00	0	0.	0
6	2.67	68	0.00	0	0.	0
7	.60	15	0.00	0	0.	0
8	1.43	36	0.00	0	0.	0
9	2.71	69	0.00	0	0.	0
10	1.54	39	0.00	0	0.	0
11	2.76	70	0.00	0	0.	0
12	2.07	53	0.00	0	0.	0
13	1.51	38	0.00	0	0.	0
14	5.80	147	0.00	0	0.	0
15	4.38	111	0.00	0	0.	0
16	1.14	29	0.00	0	0.	0
17	2.81	71	0.00	0	0.	0
18	1.49	38	0.00	0	0.	0
19	1.84	47	0.00	0	0.	0
20	2.55	65	0.00	0	0.	0
21	.67	17	0.00	0	0.	0
22	3.13	80	0.00	0	0.	0
23	1.68	43	0.00	0	0.	0
24	1.20	30	0.00	0	0.	0
25	1.69	43	0.00	0	0.	0
26	1.27	32	0.00	0	0.	0
27	1.17	30	0.00	0	0.	0
28	2.52	64	0.00	0	0.	0
29	.33	8	0.00	0	0.	0
30	.99	25	0.00	0	0.	0
31	6.43	163	0.00	0	0.	0
MONTH	6.43	163	0.00	0	0.	0

NOTES :  
 T = TRACE AMOUNTS (<.01. OR <.5. OR < 1.0 INCHES)  
 + = VALUE OCCURRED IN PREVIOUS YEAR(S).  
 THIS SYMBOL OMITTED FOR SNOWFALL AND SNOW DEPTH AMOUNTS = 0.0



## 21 - DAILY EXTREME AMOUNTS

013750 NORFOLK, VA

 LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
 PERIOD OF RECORD : 1945-1986

MONTH : SEP

DAY	PRECIPITATION		SNOWFALL		SNOW DEPTH	
	INCHES	MM	INCHES	MM	INCHES	MM
1	2.66	68	0.00	0	0.0	0
2	.99	25	.00	0	0.0	0
3	3.11	79	.00	0	0.0	0
4	.81	21	.00	0	0.0	0
5	7.92	201	.00	0	0.0	0
6	2.13	54	.00	0	0.0	0
7	.60	15	.00	0	0.0	0
8	1.04	26	.00	0	0.0	0
9	.92	23	.00	0	0.0	0
10	1.51	38	.00	0	0.0	0
11	1.70	43	.00	0	0.0	0
12	3.82	97	.00	0	0.0	0
13	3.76	96	.00	0	0.0	0
14	.74	19	.00	0	0.0	0
15	5.47	139	.00	0	0.0	0
16	1.78	45	.00	0	0.0	0
17	1.59	40	.00	0	0.0	0
18	.73	19	.00	0	0.0	0
19	1.31	33	.00	0	0.0	0
20	.92	23	.00	0	0.0	0
21	4.72	120	.00	0	0.0	0
22	1.84	47	.00	0	0.0	0
23	2.65	67	.00	0	0.0	0
24	2.63	67	.00	0	0.0	0
25	1.15	29	.00	0	0.0	0
26	2.54	65	.00	0	0.0	0
27	2.61	66	.00	0	0.0	0
28	3.91	99	.00	0	0.0	0
29	2.23	57	.00	0	0.0	0
30	3.89	99	.00	0	0.0	0
31						
MONTH	7.92	201	.00	0	0.0	0

 NOTES :  
 T = TRACE AMOUNTS (<.01" OR <.5" OR < 1.0 INCHES)  
 + = VALUE OCCURRED IN PREVIOUS YEAR(S).

THIS SYMBOL OMITTED FOR SNOWFALL AND SNOW DEPTH AMOUNTS = 0.0



## 21 - DAILY EXTREME AMOUNTS

013750 NORFOLK, VA

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
PERIOD OF RECORD : 1945-1986

MONTH : OCT

DAY	PRECIPITATION		SNOWFALL		SNOW DEPTH	
	INCHES	MM DATE	INCHES	MM DATE	INCHES	MM DATE
1	2.76	70 1971	.00	0 1986	0.	0 1986
2	1.41	36 1976	.00	0 1986	0.	0 1986
3	2.40	61 1962	.00	0 1986	0.	0 1986
4	2.23	57 1964	.00	0 1986	0.	0 1986
5	1.11	28 1964	.00	0 1986	0.	0 1986
6	1.48	38 1972	.00	0 1986	0.	0 1986
7	.88	22 1965	.00	0 1986	0.	0 1986
8	.41	10 1960	.00	0 1986	0.	0 1986
9	.87	22 1947	.00	0 1986	0.	0 1986
10	2.12	54 1959	T	1979	0.	0 1986
11	.14	4 1947	.00	0 1986	0.	0 1986
12	.34	9 1977	.00	0 1986	0.	0 1986
13	1.31	33 1982	.00	0 1986	0.	0 1986
14	1.25	32 1959	.00	0 1986	0.	0 1986
15	.50	13 1945	.00	0 1986	0.	0 1986
16	1.01	26 1974	.00	0 1986	0.	0 1986
17	.62	16 1956	.00	0 1986	0.	0 1986
18	.96	24 1975	.00	0 1986	0.	0 1986
19	1.37	35 1968	.00	0 1986	0.	0 1986
20	1.12	28 1960	.00	0 1986	0.	0 1986
21	3.31	84 1958	.00	0 1986	0.	0 1986
22	.61	15 1956	.00	0 1986	0.	0 1986
23	3.03	77 1971	.00	0 1986	0.	0 1986
24	2.60	66 1959	.00	0 1986	0.	0 1986
25	2.18	55 1981	.00	0 1986	0.	0 1986
26	1.09	28 1977	.00	0 1986	0.	0 1986
27	.34	9 1975	T	1957	0.	0 1986
28	.49	12 1972+	.00	0 1986	0.	0 1986
29	.69	18 1954	.00	0 1986	0.	0 1986
30	3.03	77 1956	.00	0 1986	0.	0 1986
31	.98	25 1949	.00	0 1986	0.	0 1986
MONTH	3.31	84 1958	T	1979	0.	0 1986

NOTES :

T = TRACE AMOUNTS (&lt;.01, OR &lt;.5, OR &lt; 1.0 INCHES)

+ = VALUE OCCURRED IN PREVIOUS YEAR(S).

THIS SYMBOL OMITTED FOR SNOWFALL AND SNOW DEPTH AMOUNTS = 0.0



## 21 - DAILY EXTREME AMOUNTS

013750 NORFOLK, VA

 LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
 PERIOD OF RECORD : 1945-1986

MONTH : NOV

DAY	PRECIPITATION		SNOWFALL		SNOW DEPTH	
	INCHES	MM	INCHES	MM	INCHES	MM
1	1.98	50	.00	0	0.	0
2	.64	16	.00	0	0.	0
3	2.44	62	T	1951	0.	0
4	1.77	45	.00	0	0.	0
5	1.23	31	.00	0	0.	0
6	2.06	52	.00	0	0.	0
7	1.03	26	T	1953	0.	0
8	1.52	39	T	1976	0.	0
9	.84	21	.00	0	0.	0
10	1.48	38	.00	0	0.	0
11	1.42	36	.00	0	0.	0
12	.74	19	.00	0	0.	0
13	.64	16	.00	0	0.	0
14	1.27	32	.00	0	0.	0
15	.72	18	.00	0	0.	0
16	.49	12	.00	0	0.	0
17	.90	23	.00	0	0.	0
18	1.35	34	.00	0	0.	0
19	.78	20	T	1961	0.	0
20	1.15	29	.00	0	0.	0
21	2.47	63	.00	0	0.	0
22	1.07	27	.10	3	0.	0
23	1.15	29	.00	0	0.	0
24	.63	16	T	1956	0.	0
25	1.04	26	T	1950	0.	0
26	1.03	26	T	1977	0.	0
27	.56	14	.00	0	0.	0
28	1.18	30	.90	23	0.	0
29	1.28	33	.90	23	1.	25
30	1.59	40	.20	5	0.	0
31						
MONTH	2.47	63	.90	23	1.	25

NOTES :

T = TRACE AMOUNTS (&lt;.01, OR &lt;.5, OR &lt; 1.0 INCHES)

+ = VALUE OCCURRED IN PREVIOUS YEAR(S).

THIS SYMBOL OMITTED FOR SNOWFALL AND SNOW DEPTH AMOUNTS = 0.0



## 21 - DAILY EXTREME AMOUNTS

013750 NORFOLK, VA

 LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
 PERIOD OF RECORD : 1945-1986

MONTH : DEC

DAY	PRECIPITATION		SNOWFALL		SNOW DEPTH	
	INCHES	MM	INCHES	MM	INCHES	MM
1	.73	19	1974	T	1967	0
2	.77	20	1986	.00	0	0
3	1.37	35	1948	T	1966	0
4	1.03	26	1950	T	1966	0
5	.98	25	1978	T	1984	0
6	.58	15	1983	1.60	41	25
7	.95	24	1975	1.30	33	51
8	1.87	47	1973	T	1976	25
9	2.18	55	1957	T	1977	1
10	1.11	28	1967	T	1957	0
11	1.46	37	1960	.10	231	0
12	2.28	58	1983	2.50	64	305
13	.97	25	1966	.50	13	229
14	1.02	26	1972	4.00	102	203
15	1.63	41	1972	.70	18	305
16	1.46	37	1973	T	1973	12
17	.92	23	1961	.30	8	305
18	.85	22	1959	T	1986	254
19	1.07	27	1945	T	1974	76
20	.46	12	1973	.50	13	T
21	.60	15	1977	.30	8	1958
22	1.25	32	1967	T	1950	51
23	.95	24	1963	3.60	91	T
24	1.25	32	1986	.50	13	1967
25	.95	24	1981	1.80	46	0
26	.99	25	1975	T	1947	25
27	1.07	27	1964	T	1980	0
28	1.32	34	1958	T	1977	T
29	.88	22	1958	T	1976	0
30	1.29	33	1948	T	1982	0
31	1.02	26	1952	T	1970	0
MONTH	2.28	58	1983	9.10	231	305

NOTES :  
 T = TRACE AMOUNTS (<.01, OR <.5, OR < 1.0 INCHES)  
 + = VALUE OCCURRED IN PREVIOUS YEAR(S).  
 THIS SYMBOL OMITTED FOR SNOWFALL AND SNOW DEPTH AMOUNTS = 0.0



## 23 - EXTREME VALUES

PRECIPITATION (INCHES)  
(FROM DAILY OBS)Q13750 NORFOLK, VA  
PERIOD OF RECORD : 1945-1986  
LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
PAGE : 1

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1945	MISS	T	MISS	MISS	T	MISS	MISS	T	MISS	T	T	T	T
1946	.45	1.21	.67	.93	.84	.66	PART	PART	2.23	PART	1.35	.32	PART
1947	PART	PART	.67	2.16	1.72	PART	3.07	2.52	2.63	.87	2.44	1.43	PART
1948	1.44	1.43	.92	1.08	2.79	1.19	PART	2.18	.64	.93	1.77	1.37	PART
1949	.81	1.17	.64	.55	1.46	.63	1.28	2.15	1.78	.49	1.98	.87	2.15
1950	.81	.41	PART	.59	1.08	1.04	2.98	2.03	1.50	.49	.46	1.03	PART
1951	.60	PART	.71	.55	1.12	1.41	.58	2.04	1.15	.51	1.03	.40	PART
1952	1.27	1.01	1.74	.54	1.00	.58	1.83	1.43	.92	.63	2.47	1.02	2.47
1953	.30	.84	.49	1.60	.53	.93	1.10	5.80	2.40	.66	.34	.74	5.80
1954	1.00	2.13	1.76	1.61	.81	.35	1.37	.49	.76	.69	.53	.60	2.13
1955	.71	.75	1.05	.66	.48	1.06	.93	2.07	3.11	.52	1.48	.43	3.11
1956	.52	.93	1.48	1.14	.64	1.00	4.08	2.55	1.28	3.03	.57	.51	4.08
1957	.87	.98	.83	1.30	.59	1.18	.62	1.25	.92	1.01	1.15	2.18	2.18
1958	.85	1.13	1.88	.95	2.04	1.60	1.04	1.69	.40	3.31	1.03	1.32	3.31
1959	.81	.74	.64	1.69	.43	1.44	.79	.56	3.91	2.60	.64	.85	3.91
1960	1.23	1.17	.58	.71	1.04	.75	3.14	1.74	3.82	1.12	PART	1.46	PART
1961	1.30	1.35	.84	1.00	1.83	1.71	1.32	2.93	.62	1.12	.49	.97	2.93
1962	1.19	.53	1.15	.93	.74	1.35	1.81	2.71	1.61	2.40	1.07	.66	2.71
1963	1.02	1.17	.79	.64	.53	5.21	1.30	.62	5.47	.18	1.48	.95	5.47
1964	.84	.84	.83	1.04	.33	1.71	.98	6.43	3.76	2.23	.51	1.07	6.43
1965	.52	.84	.79	.51	.85	1.80	.59	1.34	.65	.88	.23	.55	1.80
1966	.82	.92	.62	.17	1.15	.61	2.52	1.31	.73	.32	.70	.97	2.52
1967	2.55	1.03	.58	.41	.92	1.44	1.74	1.11	1.51	.37	.59	1.25	2.55
1968	1.05	.40	1.78	2.16	1.59	.82	.98	.36	1.00	1.37	.86	.61	2.16
1969	1.12	.89	.92	.93	2.24	1.07	3.31	1.05	1.01	1.30	PART	.82	PART
1970	.66	1.52	.51	1.03	.87	1.22	.87	.47	.66	.09	.41	1.38	1.52
1971	1.20	.85	1.07	1.00	.89	.52	.72	.95	3.89	3.03	.57	.39	3.89
1972	1.64	1.67	1.16	1.31	1.69	3.21	1.43	.71	4.72	1.48	1.76	1.63	4.72
1973	1.19	1.47	1.58	.75	.71	2.67	6.49	2.71	.41	1.07	1.23	1.87	6.49
1974	.81	1.40	1.00	.75	1.02	1.94	1.82	2.67	2.13	1.01	.25	1.07	2.67
1975	1.06	.99	1.20	2.23	.50	1.37	2.65	.52	.83	.96	.67	.99	2.65
1976	1.09	.60	1.29	.37	1.29	.66	1.46	1.54	1.20	1.41	.62	.89	1.54
1977	1.04	.80	1.03	.65	1.22	1.13	.77	1.78	.62	1.09	2.06	.81	2.06
1978	1.30	.40	1.26	1.32	.74	1.39	2.50	.48	.35	1.11	.96	.98	2.50
1979	1.74	1.31	2.45	2.46	1.86	1.06	1.36	2.32	7.92	.67	1.42	.38	7.92
1980	.66	.92	1.10	.96	.85	.25	.58	4.38	.63	1.50	.64	.80	4.38
1981	.65	.63	1.24	.67	1.58	1.68	1.77	3.13	1.04	2.18	.90	1.51	3.13
1982	.55	1.77	.97	1.03	1.08	.70	1.12	2.76	1.49	1.53	.72	1.01	2.76
1983	.40	2.21	1.29	2.68	1.01	1.02	.46	.53	MISS	MISS	T	MISS	MISS
1984	.90	2.68	1.56	1.23	2.26	1.32	MISS	T	T	T	T	MISS	MISS
1985	2.15	1.26	.91	.31	1.09	2.87	1.08	.60	2.61	1.26	1.59	.46	2.87
1986	.84	.69	.30	1.26	.28	1.45	2.25	1.76	.23	.67	.29	1.25	2.25

MEAN 1.00 1.08 1.07 1.07 1.09 1.35 1.70 1.80 1.81 1.81 1.16 .94 .92 3.35  
S.D. .453 .522 .454 .598 .595 .890 1.198 1.393 1.661 1.661 1.30 .630 .468 1.581  
TOT OBS 40 40 39 41 42 40 38 41 40 40 40 40 41 32

NOTE : T = TRACE AMOUNTS (LESS THAN .01, .1, OR 1.0 INCHES)



# 23 - EXTREME VALUES

## PRECIPITATION (INCHES) (FROM DAILY OBS)

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
PAGE : 1

Q13750 NORFOLK. VA  
PERIOD OF RECORD : 1945-1986

### YEAR/MONTHS WITH < FULL NUMBER OF OBSERVATIONS

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL PRECIP # DAYS
1946			.14 30				1.29 30	1.49 30		.26 30			
1947	1.18 29	.60 27				2.92 29							PRECIP # DAYS
1948							1.16 30						PRECIP # DAYS
1950			.70 30										PRECIP # DAYS
1951		.33 27											PRECIP # DAYS
1960											.52 28		PRECIP # DAYS
1969											.49 29		PRECIP # DAYS



## 24 - EXTREME VALUES

SNOWFALL (INCHES)  
(FROM DAILY OBS)013750 NORFOLK, VA  
PERIOD OF RECORD : 1945-1986LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
PAGE : 1

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1945	MISS PART	MISS PART	MISS PART	MISS PART	MISS PART	MISS PART	MISS PART	MISS PART	MISS PART	MISS PART	MISS PART	MISS PART	MISS PART
1946	0	3.5	T	0	0	0	0	0	0	0	0	0	0
1947	4.0	2.1	0	0	0	0	0	0	0	0	0	1.8	0
1948	T	0	T	0	0	0	0	0	0	0	0	T	0
1949	0	0	0	0	0	0	0	0	0	0	0	0	0
1950	0	0	0	0	0	0	0	0	0	0	0	0	0
1951	T	0	0	0	0	0	0	0	0	0	0	0	0
1952	T	0	0	0	0	0	0	0	0	0	0	0	0
1953	T	0	0	0	0	0	0	0	0	0	0	0	0
1954	0.2	0	0.5	T	0	0	0	0	0	0	0	0	0.5
1955	3.0	T	0	0	0	0	0	0	0	0	0	0	1.6
1956	T	0	T	0	0	0	0	0	0	0	0	0	3.0
1957	1.1	T	0	T	0	0	0	0	0	0	0	0	T
1958	2.1	0.8	T	0	0	0	0	0	0	0	0	0.4	1.1
1959	T	0	T	0	0	0	0	0	0	0	0	9.1	9.1
1960	T	4.0	3.0	0	0	0	0	0	0	0	0	T	0
1961	1.3	1.3	0	0	0	0	0	0	0	0	0	T	1.3
1962	5.2	1.0	1.0	0	0	0	0	0	0	0	0	0.3	5.2
1963	T	0.6	0	0	0	0	0	0	0	0	0	T	0.6
1964	T	2.0	T	T	0	0	0	0	0	0	0	0	2.0
1965	3.9	8.0	T	0	0	0	0	0	0	0	0	T	8.0
1966	6.0	T	0	0	0	0	0	0	0	0	0	0	6.0
1967	4.5	5.0	T	0	0	0	0	0	0	0	0	0.5	5.0
1968	1.5	0.8	2.0	0	0	0	0	0	0	0	0	1.3	2.0
1969	T	0.1	2.0	0	0	0	0	0	0	0	0	T	2.0
1970	1.0	3.0	T	0	0	0	0	0	0	0	0	T	3.0
1971	0.6	0.5	1.0	0	0	0	0	0	0	0	0	T	1.0
1972	0	T	T	0.2	0	0	0	0	0	0	0	0	0.2
1973	7.0	3.0	T	0	0	0	0	0	0	0	0	0.3	7.0
1974	T	T	6.4	0	0	0	0	0	0	0	0	T	6.4
1975	T	T	0.2	0	0	0	0	0	0	0	0	T	0.2
1976	T	T	0	0	0	0	0	0	0	0	T	T	T
1977	1.3	0.5	0	0	0	0	0	0	0	0	T	T	1.3
1978	0.5	6.0	1.7	0	0	0	0	0	0	0	0	0	6.0
1979	T	6.3	T	0	0	0	0	0	0	0	0	0	6.3
1980	5.0	9.0	11.0	0	0	0	0	0	0	0	0	T	11.0
1981	T	0	T	0	0	0	0	0	0	0	0	T	T
1982	1.9	0.1	T	0	0	0	0	0	0	0	0	1.7	1.9
1983	T	2.0	T	T	0	0	0	0	0	0	MISS	MISS	MISS
1984	T	1.1	0	0	0	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS
1985	3.5	T	0	0	0	0	0	0	0	0	0	0.5	3.5
1986	3.6	0.6	T	0	0	T	0	0	0	0	0	T	3.6

MEAN

1.4

2.009

1.6

0.031

0.000

0.000

0.000

0.000

0.000

0.000

0.151

1.568

3.028

TOT OBS

40

39

39

41

41

41

37

40

39

38

37

40

33

NOTE :

T = TRACE AMOUNTS (LESS THAN .01. .1. OR 1.0 INCHES)



24 - EXTREME VALUES

SNOWFALL (INCHES)  
(FROM DAILY OBS)

013750 NORFOLK, VA  
PERIOD OF RECORD : 1945-1986  
LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
PAGE : 1

YEAR/MONTHS WITH < FULL NUMBER OF OBSERVATIONS

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL SNOWFALL # DAYS
1946	30	.0 26	.0 30				.0 30			.0 30			
1947							.0 30				.0 29		SNOWFALL # DAYS
1948							.0 30						SNOWFALL # DAYS
1950			2.0 30										SNOWFALL # DAYS
1951		4.1 27											SNOWFALL # DAYS
1960											.0 28		SNOWFALL # DAYS



25 - EXTREME VALUES

SNOW DEPTH (INCHES)  
(FROM DAILY OBS)

013750 NORFOLK, VA  
PERIOD OF RECORD : 1945-1986  
LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
PAGE : 1

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1948	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS
1949	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS
1950	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	PART
1951	0.	2.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	2.
1952	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS
1953	0.	0.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.
1954	T	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	2.	2.
1955	2.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	T	2.
1956	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS
1957	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.
1958	15.	PART	T	0.	0.	0.	0.	0.	0.	0.	0.	12.	PART
1959	T	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	T
1960	0.	1.	10.	0.	0.	0.	0.	0.	0.	0.	PART	0.	PART
1961	1.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.
1962	5.	1.	T	0.	0.	0.	0.	0.	0.	0.	0.	2.	5.
1963	T	4.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	4.
1964	T	2.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	2.
1965	3.	2.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	3.
1966	11.	6.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.	11.
1967	2.	5.	0.	0.	0.	0.	0.	0.	0.	0.	0.	2.	5.
1968	T	0.	2.	0.	0.	0.	0.	0.	0.	0.	0.	T	2.
1969	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	2.
1970	T	2.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	2.
1971	0.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.
1972	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS
1973	7.	T	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	7.
1974	0.	0.	2.	0.	0.	0.	0.	0.	0.	0.	0.	0.	2.
1975	T	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	T
1976	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	T	T
1977	1.	T	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	1.
1978	T	3.	2.	0.	0.	0.	0.	0.	0.	0.	0.	0.	3.
1979	0.	5.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	5.
1980	5.	10.	15.	0.	0.	0.	0.	0.	0.	0.	0.	T	15.
1981	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS	MISS
1982	2.	T	0.	0.	0.	0.	0.	0.	0.	0.	0.	T	2.
1983	0.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	T	MISS
1984	0.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	MISS	MISS
1985	2.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	MISS
1986	3.	1.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	PART
													3.

MEAN	1.8	1.5	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.6	3.1
S.D.	3.414	2.286	3.141	.000	.000	.000	.000	.000	.000	.000	.183	2.201	3.355
TOT OBS	33	32	32	33	33	33	32	31	31	31	30	31	27

NOTE :  
I = TRACE AMOUNTS (LESS THAN .01, .1, OR 1.0 INCHES)



25 - EXTREME VALUES

SNOW DEPTH (INCHES)  
(FROM DAILY OBS)

013750 NORFOLK, VA  
PERIOD OF RECORD : 1945-1986

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
PAGE : 1

YEAR/MONTHS WITH < FULL NUMBER OF OBSERVATIONS

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL SNO DEPTH # DAYS
1950			2. 30										
1958		T 27											SNO DEPTH # DAYS
1960											0. 28		SNO DEPTH # DAYS
1985								0. 30					SNO DEPTH # DAYS



DAILY PEAK GUST (KNOTS)  
(FROM DAILY OBS)Q13750 NORFOLK, VA  
PERIOD OF RECORD : 1945-1986LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
PAGE : 1

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1948	NE 43	PART	N 41	NW 45	SW 43	W 60	PART	SW 43	PART	ENE 43	PART	W 48	PART
1949	W 43	SW 41	W 40	PART	NE 44	ESE 33	PART	SW 41	NE 37	N 34	ENE 47	NE 32	PART
1950	N 40	PART	PART	SW 41	N 39	PART	N 34	NW 38	NW 55	ENE 25	SW 47	NW 38	PART
1951	PART	NW 52	N 38	NW 55	PART	SSW 56	PART	NW 38	N 30	NW 51	SSE 44	SSW 41	PART
1952	WSW 51	N 50	WSW 58	WSW 53	SSW 40	NW 35	WSW 46	SW 37	SW 37	NW 42	E 63	PART	MISS
1953	SSE 52	PART	PART	NW 45	W 45	NE 32	WSW 46	PART	N 51	NW 38	ENE 57	WSW 61	PART
1954	PART	S 46	PART	ENE 47	ENE 42	NW 38	NW 58	NW 52	N 60	S 85	NW 44	N 57	PART
1955	NW 46	S 58	W 59	WSW 51	N 39	S 50	SSW 48	ENE 59	ENE 53	PART	PART	NW 37	PART
1956	SSW 39	SSW 51	PART	NE 52	NW 43	SE 56	W 40	PART	PART	PART	NW 32	W 29	PART
1957	PART	SW 32	SW 38	NW 61	SSW 28	SSW 36	SSW 28	ENE 43	S 31	NW 45	N 35	NW 37	PART
1958	E 38	W 43	NW 31	SSE 42	NW 41	NW 45	SW 40	SSW 39	ENE 47	NE 40	N 38	E 36	NNE 47
1959	WSW 47	NW 37	WSW 45	NE 38	SW 42	SW 35	NW 41	ENE 30	NE 28	W 31	ENE 38	ENE 38	WSW 47
1960	NW 37	WSW 46	E 43	NW 36	SW 36	SW 51	NW 36	SE 35	NW 32	NW 66	SSW 39	PART	PART
1961	NW 36	SSW 44	N 30	NW 36	NW 34	WSW 46	WSW 33	S 40	NE 30	NW 35	NW 34	ENE 30	WSW 46
1962	NNE 39	ENE 52	NW 38	N 43	NE 38	N 42	NW 39	ENE 31	ENE 31	NW 33	SSE 51	WSW 40	NNE 52
1963	NW 33	ENE 39	W 50	NW 39	ENE 49	NE 37	SSW 39	W 45	ENE 37	NW 34	NW 38	ENE 36	SSW 46
1964	W 37	W 43	SSW 46	SW 43	W 36	NW 36	NW 37	W 36	NE 43	ENE 38	N 35	N 36	SSW 46
1965	N 42	SSW 45	W 43	S 31	WSW 43	E 34	S 26	N 34	W 26	SE 34	NW 34	ENE 34	SSW 45
1966	W 38	SW 42	W 35	NW 34	ENE 31	N 31	NE 33	SSW 28	ENE 29	N 32	SW 37	W 33	SW 42
1967	W 36	W 33	WSW 45	ENE 39	SSW 45	N 31	NW 34	NW 29	ENE 45	SW 42	NW 33	ENE 35	WSW 45
1968	N 39	NW 43	NW 40	SSW 36	ENE 38	NW 33	NW 25	N 29	N 25	N 38	NE 45	W 37	NE 45
1969	NE 34	NW 39	N 44	S 38	SSW 31	W 35	NE 42	N 43	NE 27	ENE 31	ESE 31	NW 33	N 44
1970	NW 38	NW 37	SSW 29	SSW 45	ENE 28	W 56	W 50	W 29	N 42	N 34	W 45	NW 39	W 56
1971	W 48	SSW 42	N 40	ENE 37	SSW 39	N 30	N 37	E 38	NE 40	S 39	NW 38	ENE 47	W 48
1972	N 36	SW 39	S 36	NW 35	NE 31	NW 44	N 32	N 28	N 47	E 33	SSE 37	W 42	N 47
1973	SSE 33	ENE 45	W 45	WSW 39	NW 32	S 28	ENE 39	S 44	NE 26	NW 26	SSW 38	ENE 37	NNE 45
1974	WSW 28	S 45	SSW 39	SSW 33	S 33	E 31	SSW 40	NW 35	N 27	ENE 28	E 36	ESE 37	S 45
1975	WSW 37	SW 36	NW 42	W 44	NW 33	N 25	SW 33	NW 27	NW 29	NW 32	N 35	SSW 34	W 44
1976	N 33	W 40	NW 40	N 29	NW 31	W 30	NW 65	W 45	ENE 24	S 35	PART	PART	MISS
1977	NW 47	W 42	W 44	SW 40	NW 35	W 61	NW 42	W 36	WSW 28	ENE 37	WSW 33	S 32	W 61
1978	SSW 55	NW 37	PART	NE 46	SW 32	N 41	NW 39	SSW 28	WSW 45	N 36	ENE 31	SW 40	PART
1979	WSW 41	W 39	S 32	WSW 39	ENE 39	NW 30	PART	PART	PART	W 36	SSE 34	N 46	PART
1980	S 32	NW 38	ENE 50	W 45	N 39	NW 43	NW 41	WSW 54	NE 26	WSW 36	SSW 33	ENE 39	WSW 54
1981	NW 34	SW 44	NW 38	NW 36	NW 36	PART	W 49	N 40	N 34	PART	ENE 34	NW 30	PART
1982	W 37	N 33	SW 29	SSW 42	NW 34	S 41	PART	SSW 50	ENE 33	NE 57	PART	ENE 45	PART
1983	NNE 38	N 40	ENE 44	SE 35	W 40	SSW 38	NW 32	PART	MISS	MISS	NW 39	ENE 41	PART
1984	NNE 33	ESE 40	SSW 34	W 37	SW 40	NW 37	MISS	NW 36	ENE 32	N 30	SSW 36	W 26	PART
1985	PART	ESE 36	W 37	SW 38	NE 36	SW 45	WSW 32	N 38	NW 56	NW 28	MISS	PART	MISS
1986	WSW 30	SW 32	S 39	NW 33	PART	SSW 37	N 54	PART	ENE 33	NE 34	N 35	N 41	PART
MEAN	39.1	41.2	41.1	40.9	38.0	39.2	39.8	38.2	37.4	37.5	39.0	38.6	47.8
S.D.	6.335	5.820	7.303	6.933	5.659	9.234	8.832	8.078	11.247	10.500	7.446	7.161	4.787
TOT OBS	35	36	34	38	37	37	33	34	35	35	33	36	19



## 27 - EXTREME VALUES

DAILY PEAK GUST (KNOTS)  
(FROM DAILY OBS)013750 NORFOLK, VA  
PERIOD OF RECORD : 1945-1986LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
PAGE : 1

## YEAR/MONTHS WITH &lt; FULL NUMBER OF OBSERVATIONS

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL PEAK GUST # DAYS
1948	W 47 27					W 36 29			NE 34 29		E 41 29		
1949			SW 40 29			NW 33 28							PEAK GUST # DAYS
1950	SSW 31 26	SW 44 30			SSW 45 29								PEAK GUST # DAYS
1951	WSW 38 30			SW 48 29		W 46 30							PEAK GUST # DAYS
1952											NE 39 30		PEAK GUST # DAYS
1953	W 50 27	WNW 42 30				NW 70 25							PEAK GUST # DAYS
1954	NNE 55 29	WNW 42 30											PEAK GUST # DAYS
1955									WSW 57 30	SW 48 29			PEAK GUST # DAYS
1956		W 45 30				NW 46 30	ENE 42 29						PEAK GUST # DAYS
1957	WNW 39 30												PEAK GUST # DAYS
1960											N 30 28		PEAK GUST # DAYS
1976										NW 33 29	NW 32 30		PEAK GUST # DAYS
1978		S 39 30											PEAK GUST # DAYS
1979						NNE 32 25	NW 39 23	S 41 27					PEAK GUST # DAYS
1981					WNW 38 28				N 31 30				PEAK GUST # DAYS
1982						W 40 29				SSW 35 27			PEAK GUST # DAYS
1983							NW 32 30						PEAK GUST # DAYS



	1985	N 29\ 30	/	/	/	/	/	/	/	/	WNW 26\ 27	PEAK GUST # DAYS
1986	/	/	/	/	/	/	/	/	/	/	/	PEAK GUST # DAYS

WNW 25\ 30  
E 54\ 30



## 29 - DAILY AVERAGE/EXTREME TEMPERATURES

013750 NORFOLK, VA  
PERIOD OF RECORD : 1945-1986LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : JAN

MEAN TEMPERATURE			MAXIMUM TEMPERATURE			MINIMUM TEMPERATURE		
AVERAGE			AVERAGE			AVERAGE		
DEG F DEG C			DEG F DEG C			DEG F DEG C		
DAY	DEG F	DEG C	DEG F	DEG C	DATE	DEG F	DEG C	DATE
1	43.8	6.6	50.8	10.5	1952.	36.8	2.7	1963.
2	42.5	5.8	49.8	9.9	1955.	35.2	1.8	1957.
3	42.8	6.0	49.9	9.9	1951.+	35.7	2.0	1979.
4	42.7	6.0	49.3	9.6	1950.	36.1	2.3	1981.
5	40.8	4.9	47.6	8.6	1950.	34.1	1.2	1981.
6	41.6	5.3	48.5	9.2	1950.	34.7	1.5	1981.+
7	42.2	5.7	49.8	9.9	1946.	34.6	1.4	1977.
8	39.4	4.1	45.8	7.7	1965.	33.0	.6	1970.
9	39.7	4.3	47.0	8.3	1965.	32.3	.2	1970.
10	40.4	4.7	47.9	8.8	1950.	33.0	.5	1982.
11	38.9	3.8	45.2	7.3	1974.	32.6	.3	1982.
12	37.8	3.2	43.9	6.6	1963.	31.7	-.2	1981.
13	39.4	4.1	46.7	8.1	1972.	32.1	.1	1981.
14	40.1	4.5	47.2	8.4	1952.	33.1	.6	1964.
15	40.0	4.4	46.3	8.0	1959.+	33.7	.9	1948.
16	39.0	3.9	46.2	7.9	1953.	31.7	-.1	1972.
17	38.1	3.4	45.8	7.7	1949.	30.5	-.8	1977.
18	39.4	4.1	46.4	8.0	1986.+	32.3	.2	1977.
19	40.5	4.7	47.6	8.7	1973.+	33.3	.7	1977.
20	40.5	4.7	48.2	9.0	1951.	32.9	.5	1985.
21	40.3	4.6	47.5	8.6	1959.	33.0	.6	1985.
22	40.7	4.8	47.9	8.8	1959.	33.5	.8	1985.+
23	42.4	5.8	50.8	10.4	1974.	34.1	1.2	1970.
24	42.2	5.7	50.2	10.1	1967.	34.2	1.2	1963.
25	43.4	6.3	50.5	10.3	1950.	36.3	2.4	1948.
26	44.6	7.0	52.4	11.3	1950.	36.8	2.7	1982.
27	43.1	6.2	50.8	10.4	1967.	35.4	1.9	1982.
28	40.4	4.7	47.7	8.7	1974.	33.2	.7	1986.
29	40.7	4.8	48.5	9.1	1975.	33.0	.5	1977.
30	40.7	4.9	48.4	9.1	1947.	33.0	.6	1966.
31	39.4	4.1	46.0	7.8	1982.+	32.7	.4	1966.
MONTH	40.9	4.9	48.1	8.9	1975.	33.7	.9	1985.

NOTES :  
T = TRACE AMOUNTS (<.01. OR <.5. OR < 1.0 INCHES)  
+ = VALUE OCCURRED IN PREVIOUS YEAR(S).

THIS SYMBOL OMITTED FOR SNOWFALL AND SNOW DEPTH AMOUNTS = 0.0



## 29 - DAILY AVERAGE/EXTREME TEMPERATURES

013750 NORFOLK, VA  
PERIOD OF RECORD : 1945-1986

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FI  
MONTH : FEB

MEAN TEMPERATURE			MAXIMUM TEMPERATURE			MINIMUM TEMPERATURE		
DAY	AVERAGE		AVERAGE	EXTREME		AVERAGE	EXTREME	
	DEG F	DEG C		DEG F	DEG C		DEG F	DEG C
1	40.0	4.4	47.4	8.6	22.2	32.6	3	15.0
2	40.6	4.8	47.3	8.5	21.1	33.9	1.0	20.0
3	39.1	4.0	46.7	8.2	23.3	31.5	-3	21.0
4	39.1	4.0	46.0	7.8	19.4	32.3	2	18.0
5	39.4	4.1	46.0	7.8	20.6	32.7	4	15.0
6	41.0	5.0	48.7	9.3	19.4	33.3	7	18.0
7	40.3	4.6	47.4	8.6	17.8	33.2	6	16.0
8	37.9	3.3	44.7	7.0	20.6	31.2	-4	18.0
9	39.4	4.1	46.5	8.1	19.4	32.3	2	16.0
10	41.0	5.0	49.0	9.5	22.8	33.0	5	18.0
11	41.6	5.3	49.7	9.8	21.1	33.5	8	17.0
12	40.1	4.5	47.5	8.6	24.4	32.7	4	18.0
13	41.7	5.4	49.2	9.6	22.8	34.1	1.1	19.0
14	43.8	6.6	52.8	11.6	24.4	34.8	1.6	19.0
15	44.4	6.9	52.4	11.4	24.4	36.3	2.4	23.0
16	44.0	6.7	51.9	11.0	24.4	36.2	2.4	17.0
17	42.5	5.8	49.7	9.8	26.7	35.4	1.9	12.0
18	43.0	6.1	50.7	10.4	26.7	35.4	1.9	13.0
19	44.4	6.9	52.4	11.4	22.8	36.4	2.5	17.0
20	42.5	5.8	49.3	9.6	21.1	35.7	2.1	23.0
21	43.2	6.2	51.0	10.6	23.9	35.4	1.9	21.0
22	45.3	7.4	53.9	12.2	23.9	36.8	2.7	15.0
23	45.1	7.3	52.5	11.4	26.7	37.6	3.1	15.0
24	46.1	7.8	54.2	12.3	27.8	38.0	3.3	20.0
25	45.8	7.6	54.1	12.3	22.8	37.4	3.0	18.0
26	45.5	7.5	53.2	11.8	22.8	37.7	3.2	20.0
27	45.5	7.5	53.3	11.8	25.0	37.7	3.2	18.0
28	46.5	8.1	55.7	13.2	25.6	37.3	2.9	25.0
MONTH	42.5	5.8	50.1	10.1	27.8	34.8	1.6	12.0
								-11.1
								1958.

NOTES :

T = TRACE AMOUNTS (<.01, OR <.5, OR < 1.0 INCHES)

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THIS SYMBOL OMITTED FOR SNOWFALL AND SNOW DEPTH AMOUNTS = 0.0



29 - DAILY AVERAGE/EXTREME TEMPERATURES

013750 NORFOLK, VA  
PERIOD OF RECORD : 1945-1986

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : MAR

MEAN TEMPERATURE			MAXIMUM TEMPERATURE			MINIMUM TEMPERATURE		
DAY	AVERAGE DEG F	DEG C	AVERAGE DEG F	DEG C	DATE	AVERAGE DEG F	DEG C	DATE
1	44.8	7.1	51.9	11.1	1976.+	37.8	3.2	1980.
2	45.6	7.6	53.3	11.9	1972.	37.8	3.2	1980.
3	46.3	8.0	54.0	12.2	1974.	38.7	3.7	1980.
4	48.1	8.9	56.7	13.7	1974.	39.4	4.1	1980.+
5	50.1	10.1	58.5	14.7	1976.	41.7	5.4	1960.
6	48.8	9.3	57.5	14.2	1967.	40.0	4.5	1960.
7	47.7	8.7	55.4	13.0	1974.	39.9	4.4	1986.+
8	46.4	8.0	53.9	12.2	1946.	38.9	3.8	1986.
9	45.2	7.3	52.5	11.4	1964.	37.9	3.3	1975.+
10	47.0	8.4	55.1	12.8	1964.	39.0	3.9	1960.
11	48.3	9.1	56.7	13.7	1986.	39.9	4.4	1960.
12	49.6	9.8	57.9	14.4	1973.	41.3	5.2	1969.+
13	50.9	10.5	59.6	15.3	1982.	42.3	5.7	1960.
14	50.6	10.3	59.5	15.3	1973.	41.6	5.3	1960.
15	50.7	10.4	59.3	15.2	1973.	42.0	5.5	1960.
16	50.3	10.2	58.6	14.8	1945.+	42.0	5.6	1969.+
17	49.3	9.6	57.0	13.9	1945.+	41.5	5.3	1950.
18	47.8	8.8	55.0	12.8	1977.	40.6	4.8	1976.
19	49.3	9.6	57.2	14.0	1945.+	41.3	5.2	1959.
20	50.0	10.0	57.7	14.3	1948.+	42.3	5.7	1981.
21	52.2	11.2	60.6	15.9	1968.+	43.7	6.5	1965.
22	50.5	10.3	58.7	14.8	1948.	42.3	5.7	1986.
23	50.4	10.2	59.3	15.2	1966.	41.5	5.3	1986.
24	51.9	11.0	60.7	16.0	1975.	43.0	6.1	1971.
25	50.5	10.3	58.3	14.6	1959.	42.7	5.9	1974.
26	51.5	10.8	60.1	15.6	1949.+	43.0	6.1	1960.
27	52.1	11.1	60.7	15.9	1950.+	43.5	6.4	1955.
28	52.8	11.5	61.2	16.2	1945.+	44.3	6.8	1982.
29	55.4	13.0	64.7	18.2	1985.	46.1	7.8	1982.
30	54.7	12.6	62.8	17.1	1945.+	46.6	8.1	1964.
31	53.2	11.8	60.9	16.0	1945.+	45.5	7.5	1964.
MONTH	49.7	9.9	57.9	14.4	1945.+	41.6	5.3	1986.+

NOTES :

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THIS SYMBOL OMITTED FOR SNOWFALL AND SNOW DEPTH AMOUNTS = 0.0



## 29 - DAILY AVERAGE/EXTREME TEMPERATURES

013750 NORFOLK, VA  
PERIOD OF RECORD : 1945-1986LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : APR

DAY	MEAN TEMPERATURE		MAXIMUM TEMPERATURE		MINIMUM TEMPERATURE		EXTREME		DATE	EXTREME		DATE
	DEG F	DEG C	AVERAGE	DEG C	DEG F	DEG C	DEG F	DEG C		DEG F	DEG C	
1	55.7	13.2	65.5	18.6	81.0	27.2	46.0	7.8	1978.	30.0	-1.1	1964.
2	58.4	14.7	68.4	20.2	89.0	31.7	48.4	9.1	1967.	29.0	-1.7	1964.
3	57.2	14.0	66.6	19.2	89.0	31.7	47.7	8.7	1967.	37.0	2.8	1985.
4	57.3	14.1	66.7	19.3	83.0	28.3	47.9	8.8	1956.	33.0	.6	1954.
5	56.7	13.7	65.8	18.8	83.0	28.3	47.5	8.6	1985.	33.0	.6	1964.
6	55.2	12.9	62.9	17.2	84.0	28.9	47.4	8.6	1967.†	34.0	1.1	1982.†
7	55.0	12.8	63.5	17.5	82.0	27.8	46.5	8.0	1967.	30.0	-1.1	1982.
8	55.7	13.2	64.4	18.0	86.0	30.0	47.0	8.3	1954.	36.0	2.2	1982.†
9	54.7	12.6	62.8	17.1	85.0	29.4	46.7	8.2	1959.	35.0	1.7	1972.
10	54.2	12.3	62.0	16.7	83.0	28.3	46.3	8.0	1967.†	33.0	.6	1985.
11	55.9	13.3	65.0	18.3	83.0	28.3	46.8	8.2	1978.†	35.0	1.7	1974.
12	57.1	14.0	66.1	18.9	86.0	30.0	48.1	9.0	1981.†	33.0	.6	1973.
13	57.2	14.0	65.9	18.8	87.0	30.6	48.5	9.2	1977.	36.0	2.2	1957.†
14	58.3	14.6	66.9	19.4	87.0	30.6	49.7	9.8	1945.†	30.0	-1.1	1950.
15	58.3	14.6	66.9	19.4	87.0	30.6	49.8	9.9	1949.	33.0	.6	1973.
16	58.3	14.6	67.2	19.6	91.0	32.8	49.3	9.6	1976.†	38.0	3.3	1962.
17	58.4	14.7	67.2	19.5	89.0	31.7	49.7	9.8	1976.	39.0	3.9	1962.
18	60.8	16.0	70.5	21.4	86.0	30.0	51.0	10.6	1965.	34.0	1.1	1983.
19	61.5	16.4	71.0	21.6	91.0	32.8	52.1	11.1	1985.	35.0	1.7	1983.
20	60.8	16.0	70.5	21.4	90.0	32.2	51.2	10.7	1976.	38.0	3.3	1983.†
21	60.5	15.8	70.3	21.3	90.0	32.2	50.8	10.4	1957.	38.0	3.3	1969.
22	61.5	16.4	71.0	21.6	93.0	33.9	52.0	11.1	1985.	39.0	3.9	1981.
23	63.2	17.3	72.4	22.5	88.0	31.1	53.9	12.1	1960.	39.0	3.9	1986.
24	63.4	17.5	72.7	22.6	91.0	32.8	54.2	12.3	1960.	42.0	5.6	1956.
25	62.5	16.9	70.8	21.5	90.0	32.2	54.2	12.3	1960.	43.0	6.1	1974.†
26	62.3	16.8	71.0	21.6	91.0	32.8	53.7	12.0	1960.	42.0	5.6	1974.
27	61.9	16.6	70.6	21.4	89.0	31.7	53.3	11.8	1957.	43.0	6.1	1976.†
28	60.5	15.9	68.5	20.3	92.0	33.3	52.6	11.4	1957.	42.0	5.6	1976.
29	60.5	15.8	67.9	19.9	90.0	32.2	53.0	11.7	1974.	41.0	5.0	1963.
30	62.2	16.8	70.9	21.6	86.0	30.0	53.5	12.0	1956.	43.0	6.1	1982.
MONTH	58.8	14.9	67.7	19.8	93.0	33.9	50.0	10.0	1985.	29.0	-1.7	1964.

## NOTES :

T = TRACE AMOUNTS (<.01, OR <.5, OR < 1.0 INCHES)  
+ = VALUE OCCURRED IN PREVIOUS YEAR(S).

THIS SYMBOL OMITTED FOR SNOWFALL AND SNOW DEPTH AMOUNTS = 0.0



## 29 - DAILY AVERAGE/EXTREME TEMPERATURES

Q13750 NORFOLK, VA  
PERIOD OF RECORD : 1945-1986LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : MAY

MEAN TEMPERATURE			MAXIMUM TEMPERATURE			MINIMUM TEMPERATURE		
DAY	AVERAGE DEG F	DEG C	AVERAGE DEG F	DEG C	EXTREME DEG F	AVERAGE DEG F	DEG C	EXTREME DEG F
DATE								
1	64.0	17.8	72.2	22.3	90.0	55.7	13.2	42.0
2	63.4	17.5	71.9	22.2	88.0	55.0	12.8	42.0
3	63.3	17.4	72.1	22.3	93.0	54.5	12.5	40.0
4	62.8	17.1	70.7	21.5	86.0	55.0	12.8	45.0
5	62.7	17.1	71.4	21.9	90.0	54.0	12.2	42.0
6	64.5	18.1	73.9	23.3	95.0	55.2	12.9	46.0
7	65.4	18.6	74.6	23.6	93.0	56.2	13.5	45.0
8	65.3	18.5	74.6	23.7	94.0	55.9	13.3	40.0
9	64.2	17.9	73.0	22.8	91.0	55.3	13.0	42.0
10	65.9	18.8	74.7	23.7	96.0	57.0	13.9	40.0
11	66.5	19.2	75.0	23.9	90.0	58.0	14.5	37.0
12	67.1	19.5	75.9	24.4	92.0	58.3	14.6	43.0
13	67.1	19.5	75.3	24.0	92.0	59.0	15.0	40.0
14	66.9	19.4	75.0	23.9	95.0	58.8	14.9	50.0
15	66.9	19.4	74.9	23.8	91.0	58.9	15.0	48.0
16	67.2	19.6	75.6	24.2	93.0	58.9	14.9	47.0
17	68.2	20.1	76.6	24.8	92.0	59.8	15.4	46.0
18	68.7	20.4	77.5	25.3	92.0	59.9	15.5	44.0
19	69.0	20.5	77.2	25.1	92.0	60.7	16.0	48.0
20	69.3	20.7	76.5	24.7	94.0	62.0	16.7	52.0
21	69.1	20.6	77.0	25.0	91.0	61.3	16.3	50.0
22	69.4	20.8	77.9	25.5	91.0	61.0	16.1	48.0
23	70.4	21.3	78.2	25.6	93.0	62.6	17.0	50.0
24	69.6	20.9	77.2	25.1	92.0	62.0	16.7	47.0
25	69.1	20.6	76.8	24.9	93.0	61.4	16.3	48.0
26	69.0	20.6	76.4	24.7	96.0	61.7	16.5	50.0
27	68.3	20.2	75.4	24.1	97.0	61.3	16.3	49.0
28	69.9	21.0	78.5	25.8	92.0	61.2	16.2	50.0
29	70.6	21.5	78.2	25.6	93.0	63.1	17.3	53.0
30	70.5	21.4	77.6	25.3	94.0	63.3	17.4	53.0
31	71.7	22.0	79.1	26.2	93.0	64.2	17.9	53.0
MONTH	67.3	19.6	75.5	24.2	97.0	59.1	15.0	37.0
								2.8

NOTES :

T = TRACE AMOUNTS (&lt;.01. OR &lt;.5. OR &lt; 1.0 INCHES)

+ = VALUE OCCURRED IN PREVIOUS YEAR(S).

THIS SYMBOL OMITTED FOR SNOWFALL AND SNOW DEPTH AMOUNTS = 0.0



## 29 - DAILY AVERAGE/EXTREME TEMPERATURES

013750 NORFOLK, VA  
PERIOD OF RECORD : 1945-1986LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : JUN

MEAN TEMPERATURE				MAXIMUM TEMPERATURE				MINIMUM TEMPERATURE				
DAY	AVERAGE		DATE	AVERAGE		EXTREME	DATE	AVERAGE		EXTREME	DATE	
	DEG F	DEG C		DEG F	DEG C			DEG F	DEG C			
1	72.5	22.5	80.1	26.7	94.0	34.4	1986.	64.9	18.3	51.0	10.6	1967.
2	72.9	22.7	81.2	27.4	95.0	35.0	1951.	64.5	18.1	47.0	8.3	1967.
3	71.6	22.0	79.3	26.3	95.0	35.0	1980.	63.8	17.7	51.0	10.6	1967.+
4	71.1	21.7	78.1	25.6	92.0	33.3	1973.	64.0	17.8	54.0	12.2	1965.
5	72.2	22.4	80.2	26.8	95.0	35.0	1975.	64.3	17.9	49.0	9.4	1965.
6	73.4	23.0	81.8	27.7	94.0	34.4	1971.+	64.9	18.3	53.0	11.7	1965.
7	74.4	23.6	82.3	28.0	95.0	35.0	1971.+	66.5	19.2	57.0	13.9	1945.
8	74.4	23.6	82.5	28.0	97.0	36.1	1986.	66.4	19.1	57.0	13.9	1958.
9	74.2	23.4	82.0	27.6	97.0	36.1	1952.	66.3	19.1	56.0	13.3	1962.
10	74.9	23.8	83.0	28.4	100.0	37.8	1964.	66.8	19.3	59.0	15.0	1986.+
11	74.6	23.7	83.1	28.4	97.0	36.1	1947.	66.0	18.9	55.0	12.8	1972.
12	75.3	24.1	84.1	28.9	99.0	37.2	1986.	66.5	19.2	54.0	12.2	1951.
13	75.5	24.2	83.6	28.7	95.0	35.0	1945.	67.5	19.7	55.0	12.8	1980.
14	74.8	23.8	82.6	28.1	95.0	35.0	1984.+	67.0	19.4	53.0	11.7	1985.
15	74.8	23.8	82.6	28.1	97.0	36.1	1980.	67.0	19.4	55.0	12.8	1961.
16	75.3	24.0	82.6	28.1	99.0	37.2	1981.	67.9	20.0	59.0	15.0	1978.+
17	74.8	23.8	81.9	27.7	99.0	37.2	1945.	67.8	19.9	57.0	13.9	1961.
18	75.1	24.0	82.5	28.1	96.0	35.6	1975.	67.8	19.9	57.0	13.9	1961.
19	75.5	24.2	82.7	28.2	96.0	35.6	1952.	68.4	20.2	57.0	13.9	1961.
20	76.3	24.6	83.6	28.7	96.0	35.6	1964.+	68.9	20.5	60.0	15.6	1966.+
21	76.1	24.5	84.0	28.9	96.0	35.6	1949.	68.3	20.1	57.0	13.9	1966.
22	76.0	24.5	83.7	28.7	99.0	37.2	1981.	68.4	20.2	58.0	14.4	1980.
23	76.9	24.9	84.5	29.2	94.0	34.4	1956.+	69.3	20.7	56.0	13.3	1972.
24	77.8	25.5	86.1	30.1	99.0	37.2	1960.	69.5	20.9	55.0	12.8	1972.
25	78.0	25.6	86.0	30.0	99.0	37.2	1952.	70.1	21.2	59.0	15.0	1972.
26	77.2	25.1	84.1	28.9	101.0	38.3	1952.	70.3	21.3	59.0	15.0	1972.
27	78.4	25.8	86.0	30.0	100.0	37.8	1959.	70.8	21.5	60.0	15.6	1967.
28	78.1	25.6	86.0	30.0	99.0	37.2	1986.	70.2	21.2	57.0	13.9	1985.
29	78.1	25.6	86.0	30.0	101.0	38.3	1980.	70.1	21.2	60.0	15.6	1974.
30	78.6	25.9	86.5	30.3	98.0	36.7	1959.+	70.8	21.6	63.0	17.2	1981.
MONTH	75.3	24.1	83.1	28.4	101.0	38.3	1980.+	67.5	19.7	47.0	8.3	1967.

## NOTES :

T = TRACE AMOUNTS (<.01. OR <.5. OF < 1.0 INCHES)  
+ = VALUE OCCURRED IN PREVIOUS YEAR(S).

THIS SYMBOL OMITTED FOR SNOWFALL AND SNOW DEPTH AMOUNTS = 0.0



LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : JUL

MEAN TEMPERATURE				MAXIMUM TEMPERATURE				EXTREME				MINIMUM TEMPERATURE			
DAY	AVERAGE		DATE	AVERAGE		DATE	EXTREME		DATE	AVERAGE		DATE	EXTREME		
	DEG F	DEG C		DEG F	DEG C		DEG F	DEG C		DEG F	DEG C		DEG F	DEG C	
1	78.7	26.0		86.2	30.1		98.0	36.7	1959.+	71.3	21.8		64.0	17.8	
2	79.1	26.1		87.3	30.7		99.0	37.2	1956.+	70.8	21.5		60.0	15.6	
3	79.5	26.4		87.3	30.7		97.0	36.1	1954.	71.7	22.0		60.0	15.6	
4	78.4	25.8		85.8	29.9		96.0	35.6	1966.	71.0	21.7		62.0	16.7	
5	78.5	25.8		86.0	30.0		97.0	36.1	1957.	71.0	21.7		60.0	15.6	
6	77.7	25.4		85.0	29.5		95.0	35.0	1986.+	70.4	21.3		61.0	16.1	
7	77.6	25.3		84.8	29.3		95.0	35.0	1986.+	70.5	21.4		58.0	14.4	
8	78.2	25.7		85.4	29.7		96.0	35.6	1977.	71.0	21.7		58.0	14.4	
9	78.8	26.0		86.3	30.2		99.0	37.2	1986.	71.4	21.9		60.0	15.6	
10	78.2	25.6		85.0	29.4		98.0	36.7	1978.	71.4	21.9		62.0	16.7	
11	77.6	25.3		83.6	28.7		94.0	34.4	1966.	71.5	22.0		62.0	16.7	
12	78.2	25.7		85.4	29.6		98.0	36.7	1986.	71.0	21.7		61.0	16.1	
13	79.3	26.3		87.0	30.5		99.0	37.2	1986.	71.7	22.0		62.0	16.7	
14	80.2	26.8		87.1	30.6		96.0	35.6	1986.+	73.4	23.0		65.0	18.3	
15	79.6	26.5		86.6	30.3		96.0	35.6	1983.+	72.6	22.6		67.0	19.4	
16	79.5	26.4		86.0	30.0		99.0	37.2	1983.	72.9	22.7		64.0	17.8	
17	79.7	26.5		86.7	30.4		100.0	37.8	1983.	72.8	22.6		63.0	17.2	
18	80.4	26.9		88.2	31.2		99.0	37.2	1983.	72.6	22.5		65.0	18.3	
19	81.0	27.2		88.8	31.6		97.0	36.1	1983.+	73.2	22.9		64.0	17.8	
20	81.2	27.3		88.6	31.4		96.0	35.6	1980.+	73.8	23.2		62.0	16.7	
21	80.8	27.1		88.4	31.3		99.0	37.2	1952.	73.2	22.9		65.0	18.3	
22	80.4	26.9		87.7	30.9		98.0	36.7	1952.	73.0	22.8		61.0	16.1	
23	80.0	26.7		87.3	30.7		100.0	37.8	1952.	72.8	22.6		60.0	15.6	
24	80.1	26.7		87.0	30.6		99.0	37.2	1972.	73.1	22.8		63.0	17.2	
25	79.6	26.4		86.4	30.2		98.0	36.7	1949.	72.8	22.6		63.0	17.2	
26	79.5	26.4		86.3	30.2		94.0	34.4	1982.	72.6	22.6		64.0	17.8	
27	80.0	26.7		87.5	30.9		97.0	36.1	1952.	72.5	22.5		65.0	18.3	
28	80.4	26.9		87.6	30.9		97.0	36.1	1955.+	73.2	22.9		63.0	17.2	
29	80.2	26.8		87.1	30.6		96.0	35.6	1953.+	73.4	23.0		67.0	19.4	
30	79.8	26.6		86.7	30.4		99.0	37.2	1953.	72.9	22.7		64.0	17.8	
31	80.4	26.9		87.8	31.0		97.0	36.1	1983.+	73.1	22.8		67.0	19.4	
MONTH	79.4	26.4		86.7	30.4		100.0	37.8	1983.+	72.2	22.3		58.0	14.4	

NOTES:  
T = TRACE AMOUNTS (<.01, OR <.5, OR < 1.0 INCHES)  
+ = VALUE OCCURRED IN PREVIOUS YEAR(S).

THIS SYMBOL OMITTED FOR SNOWFALL AND SNOW DEPTH AMOUNTS = 0.0



013750 NORFOLK, VA  
PERIOD OF RECORD : 1945-1986

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : AUG

MEAN TEMPERATURE				MAXIMUM TEMPERATURE				MINIMUM TEMPERATURE			
DAY	AVERAGE		DATE	AVERAGE		DATE	AVERAGE		DATE	EXTREME	
	DEG F	DEG C		DEG F	DEG C		DEG F	DEG C			
1	80.6	27.0		87.8	31.0	1980.	73.3	23.0	63.0	17.2	1964.
2	79.7	26.5		86.2	30.1	1980.	73.1	22.8	65.0	18.3	1976.
3	80.1	26.7		87.0	30.6	1980.	73.1	22.8	65.0	18.3	1964.
4	79.2	26.2		85.7	29.9	1980.	72.7	22.6	63.0	17.2	1985.+
5	79.0	26.1		85.8	29.9	1981.	72.2	22.3	60.0	15.6	1976.+
6	78.9	26.0		86.0	30.0	1977.	71.7	22.1	63.0	17.2	1950.+
7	79.0	26.1		86.0	30.0	1977.	71.9	22.2	65.0	18.3	1957.+
8	79.9	26.6		87.0	30.5	1977.	72.8	22.7	65.0	18.3	1974.+
9	80.4	26.9		87.8	31.0	1983.	73.0	22.8	65.0	18.3	1964.
10	80.3	26.9		87.5	30.8	1979.	73.2	22.9	63.0	17.2	1964.
11	79.4	26.3		86.2	30.1	1983.	72.5	22.5	62.0	16.7	1972.
12	77.9	25.5		84.7	29.3	1977.	71.2	21.8	60.0	15.6	1974.
13	77.8	25.4		84.6	29.2	1977.	70.9	21.6	63.0	17.2	1982.+
14	79.0	26.1		86.1	30.1	1975.	71.9	22.2	60.0	15.6	1964.
15	79.0	26.1		86.1	30.0	1980.	71.8	22.1	58.0	14.4	1964.
16	78.4	25.8		85.5	29.7	1959.	71.2	21.8	60.0	15.6	1972.
17	78.1	25.6		84.7	29.3	1959.	71.5	22.0	59.0	15.0	1972.
18	77.9	25.5		84.1	28.9	1959.	71.8	22.1	66.0	18.9	1979.+
19	78.4	25.8		85.1	29.5	1954.	71.7	22.1	65.0	18.3	1957.
20	78.1	25.6		84.7	29.3	1983.	71.6	22.0	63.0	17.2	1964.
21	77.6	25.4		83.7	28.7	1962.+	71.6	22.0	63.0	17.2	1972.
22	77.5	25.3		83.4	28.6	1983.	71.6	22.0	62.0	16.7	1984.+
23	77.4	25.2		83.3	28.5	1968.+	71.5	22.0	64.0	17.8	1981.+
24	77.2	25.1		83.3	28.5	1968.	71.1	21.7	62.0	16.7	1985.
25	77.3	25.2		83.9	28.8	1975.+	70.7	21.5	61.0	16.1	1971.
26	77.0	25.0		84.0	28.9	1975.	70.0	21.1	63.0	17.2	1977.+
27	77.6	25.3		85.0	29.5	1959.	70.2	21.2	61.0	16.1	1982.+
28	78.0	25.6		85.1	29.5	1953.	70.9	21.6	58.0	14.4	1986.
29	78.2	25.7		85.5	29.7	1978.+	70.9	21.6	55.0	12.8	1982.
30	78.2	25.7		85.7	29.9	1975.+	70.8	21.5	52.0	11.1	1982.
31	78.4	25.8		85.6	29.8	1953.	71.3	21.8	56.0	13.3	1965.
MONTH	78.6	25.9		85.4	29.7	1983.+	71.7	22.1	52.0	11.1	1982.

NOTES :  
T = TRACE AMOUNTS (<.01, OR <.5, OR < 1.0 INCHES)  
+ = VALUE OCCURRED IN PREVIOUS YEAR(S).  
THIS SYMBOL OMITTED FOR SNOWFALL AND SNOW DEP



## 29 - DAILY AVERAGE/EXTREME TEMPERATURES

013750 NORFOLK, VA  
PERIOD OF RECORD : 1945-1986LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : SEP

MEAN TEMPERATURE			MAXIMUM TEMPERATURE			MINIMUM TEMPERATURE		
DAY	AVERAGE		AVERAGE	EXTREME		AVERAGE	EXTREME	
	DEG F	DEG C		DEG F	DEG C		DEG F	DEG C
1	77.7	25.4	84.1	29.0	95.0	71.3	21.8	60.0
2	77.6	25.3	84.5	29.2	95.0	70.6	21.4	61.0
3	77.6	25.3	84.4	29.1	94.0	70.8	21.5	59.0
4	76.7	24.8	82.8	28.2	95.0	70.6	21.4	59.0
5	76.4	24.6	82.5	28.0	95.0	70.2	21.2	60.0
6	75.7	24.3	81.9	27.7	95.0	69.6	20.9	61.0
7	75.3	24.1	81.7	27.6	100.0	69.0	20.6	58.0
8	74.6	23.7	80.1	26.7	96.0	69.1	20.6	61.0
9	74.9	23.8	81.0	27.2	94.0	68.7	20.4	61.0
10	74.7	23.7	81.3	27.4	95.0	68.0	20.0	56.0
11	74.5	23.6	81.3	27.4	92.0	67.8	19.9	51.0
12	74.6	23.7	81.4	27.5	92.0	67.9	19.9	59.0
13	73.4	23.0	80.4	26.9	91.0	66.5	19.2	56.0
14	73.7	23.1	80.3	26.8	92.0	67.0	19.5	55.0
15	73.3	22.9	80.1	26.7	90.0	66.4	19.1	57.0
16	72.9	22.7	79.1	26.2	91.0	66.7	19.3	59.0
17	72.8	22.7	78.3	25.7	93.0	67.3	19.6	56.0
18	73.1	22.8	79.5	26.4	96.0	66.7	19.3	53.0
19	73.5	23.1	80.2	26.8	96.0	66.8	19.3	58.0
20	72.9	22.7	79.6	26.4	90.0	66.1	19.0	54.0
21	73.1	22.8	80.0	26.7	92.0	66.2	19.0	55.0
22	71.8	22.1	78.2	25.7	98.0	65.4	18.6	56.0
23	70.8	21.6	77.1	25.1	92.0	64.5	18.0	54.0
24	70.1	21.2	76.7	24.8	91.0	63.6	17.6	51.0
25	70.6	21.4	77.0	25.0	92.0	64.2	17.9	51.0
26	70.8	21.6	77.3	25.2	93.0	64.2	17.9	51.0
27	70.1	21.2	76.5	24.7	91.0	63.8	17.7	52.0
28	69.5	20.8	75.1	24.0	88.0	63.9	17.7	52.0
29	68.8	20.4	75.0	23.9	89.0	62.6	17.0	53.0
30	68.6	20.3	76.0	24.4	89.0	61.2	16.2	50.0
MONTH	73.3	23.0	79.8	26.5	100.0	66.9	19.4	50.0
								10.0

NOTES :  
 T = TRACE AMOUNTS (<.01, OR <.5, OR < 1.0 INCHES)  
 + = VALUE OCCURRED IN PREVIOUS YEAR(S).  
 THIS SYMBOL OMITTED FOR SNOWFALL AND SNOW DEPTH AMOUNTS = 0.0



## 29 - DAILY AVERAGE/EXTREME TEMPERATURES

013750 NORFOLK, VA  
PERIOD OF RECORD : 1945-1986LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : OCT

MEAN TEMPERATURE			MAXIMUM TEMPERATURE			MINIMUM TEMPERATURE		
DAY	AVERAGE		AVERAGE	EXTREME		AVERAGE	EXTREME	
	DEG F	DEG C		DEG F	DEG C		DEG F	DEG C
1	68.6	20.3	75.2	24.0	33.3	62.0	16.6	8.9
2	68.3	20.1	75.2	24.0	31.7	61.4	16.3	48.0
3	66.4	19.1	72.6	22.6	32.8	60.1	15.6	44.0
4	66.6	19.2	73.4	23.0	33.9	59.9	15.5	39.0
5	66.6	19.2	73.6	23.1	31.1	59.5	15.3	38.0
6	65.8	18.8	72.9	22.7	32.8	58.7	14.9	37.0
7	65.6	18.7	72.3	22.4	31.1	58.9	14.9	44.0
8	65.3	18.5	72.1	22.3	29.4	58.5	14.7	48.0
9	65.7	18.7	72.3	22.4	30.0	59.1	15.0	49.0
10	64.2	17.9	70.7	21.5	30.0	57.8	14.3	46.0
11	63.9	17.7	70.5	21.4	29.4	57.3	14.1	42.0
12	63.8	17.7	70.8	21.5	28.9	56.9	13.8	42.0
13	63.9	17.7	70.9	21.6	31.1	56.8	13.8	38.0
14	64.6	18.1	71.8	22.1	29.4	57.4	14.1	45.0
15	64.0	17.8	71.1	21.7	28.3	56.8	13.8	44.0
16	63.9	17.7	71.1	21.7	28.3	56.8	13.8	45.0
17	63.0	17.2	69.6	20.9	27.8	56.4	13.6	42.0
18	62.9	17.2	70.3	21.3	27.8	55.6	13.1	42.0
19	61.3	16.3	68.1	20.1	28.3	54.6	12.5	36.0
20	60.6	15.9	66.9	19.4	30.6	54.2	12.3	40.0
21	60.3	15.7	67.0	19.4	29.4	53.7	12.0	37.0
22	61.5	16.4	68.5	20.3	28.3	54.6	12.5	33.0
23	62.6	17.0	69.8	21.0	29.4	54.6	12.5	37.0
24	61.2	16.2	67.2	19.6	27.2	55.3	12.9	40.0
25	60.3	15.7	66.4	19.1	26.1	55.3	12.9	39.0
26	59.3	15.2	65.8	18.8	26.1	54.1	12.3	36.0
27	59.1	15.1	65.8	18.8	28.3	52.8	11.6	37.0
28	59.7	15.4	67.1	19.5	30.0	52.5	11.4	35.0
29	59.1	15.1	65.8	18.8	26.7	52.4	11.3	36.0
30	58.5	14.7	65.2	18.4	27.2	51.8	11.0	36.0
31	59.8	15.4	67.0	19.4	28.3	52.6	11.4	33.0
MONTH	63.1	17.3	69.9	21.1	33.9	56.3	13.5	35.0
								33.0
								6

## NOTES :

T = TRACE AMOUNTS (&lt;.01, OR &lt;.5, OR &lt; 1.0 INCHES)

+ = VALUE OCCURRED IN PREVIOUS YEAR(S).

THIS SYMBOL OMITTED FOR SNOWFALL AND SNOW DEPTH AMOUNTS = 0.0



## 29 - DAILY AVERAGE/EXTREME TEMPERATURES

013750 NORFOLK, VA  
PERIOD OF RECORD : 1945-1986LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : NOV

MEAN TEMPERATURE			MAXIMUM TEMPERATURE			MINIMUM TEMPERATURE					
DAY	AVERAGE		EXTREME	DATE	AVERAGE		EXTREME	DATE			
	DEG F	DEG C			DEG F	DEG C			DEG F	DEG C	
1	60.5	15.8	67.4	19.7	84.0	28.9	53.6	12.0	36.0	2.2	1975.
2	60.9	16.1	68.4	20.2	81.0	27.2	53.4	11.9	38.0	3.3	1980.
3	59.6	15.3	67.5	19.7	82.0	27.8	51.6	10.9	35.0	1.7	1951.
4	57.7	14.3	65.1	18.4	82.0	27.8	50.3	10.2	34.0	1.1	1963.
5	55.9	13.3	62.3	16.9	82.0	27.8	49.4	9.7	34.0	1.1	1966.
6	54.9	12.7	61.8	16.5	83.0	28.3	48.0	8.9	35.0	1.7	1962.†
7	54.8	12.7	62.6	17.0	77.0	25.0	47.0	8.3	32.0	.0	1962.
8	54.7	12.6	62.7	17.1	77.0	25.0	46.6	8.1	32.0	.0	1967.
9	55.2	12.9	62.6	17.0	82.0	27.8	47.8	8.8	30.0	-1.1	1967.
10	55.8	13.2	63.0	17.2	83.0	28.3	48.7	9.3	34.0	1.1	1973.
11	54.0	12.2	61.3	16.3	77.0	25.0	46.7	8.1	35.0	1.7	1957.
12	53.4	11.9	60.4	15.8	75.0	23.9	46.5	8.0	35.0	1.7	1957.
13	53.6	12.0	60.6	15.9	79.0	26.1	46.7	8.1	32.0	.0	1986.
14	53.4	11.9	61.3	16.3	80.0	26.7	45.5	7.5	30.0	-1.1	1976.
15	52.9	11.6	60.4	15.8	76.0	24.4	45.4	7.5	32.0	.0	1969.†
16	54.3	12.4	62.1	16.7	83.0	28.3	46.4	8.0	27.0	-2.8	1967.
17	53.0	11.6	61.1	16.2	74.0	23.3	44.8	7.1	28.0	-2.2	1967.
18	52.2	11.2	60.0	15.6	76.0	24.4	44.5	6.9	31.0	-6	1959.
19	52.6	11.5	60.5	15.9	79.0	26.1	44.7	7.1	28.0	-2.2	1951.
20	52.3	11.3	59.5	15.3	78.0	25.6	45.1	7.3	30.0	-1.1	1951.
21	50.8	10.4	58.3	14.6	77.0	25.0	43.2	6.2	31.0	-6	1980.†
22	50.1	10.0	57.1	14.0	79.0	26.1	43.0	6.1	31.0	-6	1981.
23	48.9	9.4	56.6	13.7	79.0	26.1	41.2	5.1	29.0	-1.7	1964.
24	51.1	10.6	59.3	15.2	77.0	25.0	42.9	6.1	24.0	-4.4	1970.
25	49.0	9.4	56.2	13.5	80.0	26.7	41.7	5.4	23.0	-5.0	1950.
26	49.1	9.5	56.8	13.8	75.0	23.9	41.3	5.2	21.0	-6.1	1950.
27	52.0	11.1	60.2	15.7	81.0	27.2	43.8	6.6	25.0	-3.9	1977.
28	52.4	11.3	60.4	15.8	80.0	26.7	44.4	6.9	28.0	-2.2	1974.
29	48.0	8.9	54.6	12.6	74.0	23.3	41.4	5.2	24.0	-4.4	1955.
30	44.6	7.0	51.2	10.7	70.0	21.1	38.1	3.4	25.0	-3.9	1976.
MONTH	53.3	11.8	60.7	16.0	84.0	28.9	45.8	7.7	21.0	-6.1	1950.

NOTES :

T = TRACE AMOUNTS (<.01, OR <.5, OR < 1.0 INCHES)  
† = VALUE OCCURRED IN PREVIOUS YEAR(S).

THIS SYMBOL OMITTED FOR SNOWFALL AND SNOW DEPTH AMOUNTS = 0.0



013750 NORFOLK, VA  
PERIOD OF RECORD : 1945-1986

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : DEC

MEAN TEMPERATURE				MAXIMUM TEMPERATURE				MINIMUM TEMPERATURE					
DAY	AVERAGE		DATE	EXTREME		DATE	EXTREME		DATE	EXTREME			
	DEG F	DEG C		DEG F	DEG C		DEG F	DEG C					
1	45.0	7.2		51.9	11.1	72.0	22.2	1946.	38.0	3.3	27.0	-2.8	1964.+
2	45.5	7.5		53.2	11.8	68.0	20.0	1981.	37.9	3.3	26.0	-3.3	1976.
3	47.2	8.4		54.6	12.6	71.0	21.7	1950.	39.7	4.3	22.0	-5.6	1976.
4	48.2	9.0		55.6	13.1	77.0	25.0	1978.	40.8	4.9	22.0	-5.6	1976.
5	49.1	9.5		56.7	13.7	79.0	26.1	1982.	41.5	5.3	29.0	-1.7	1963.
6	47.9	8.8		55.8	13.2	73.0	22.8	1982.+	39.9	4.4	26.0	-3.3	1954.
7	47.2	8.4		55.1	12.8	78.0	25.6	1951.	39.3	4.1	22.0	-5.6	1954.
8	48.5	9.1		56.1	13.4	75.0	23.9	1978.+	40.8	4.9	22.0	-5.6	1976.
9	47.1	8.4		55.0	12.8	76.0	24.4	1978.	39.3	4.0	22.0	-5.6	1976.
10	45.4	7.5		52.7	11.5	76.0	24.4	1966.	38.1	3.4	23.0	-5.0	1977.
11	44.8	7.1		52.3	11.3	74.0	23.3	1971.	37.4	3.0	22.0	-5.6	1957.
12	45.9	7.7		53.0	11.7	72.0	22.2	1964.+	38.7	3.7	17.0	-8.3	1957.
13	45.3	7.4		52.5	11.4	72.0	22.2	1956.	38.0	3.3	14.0	-10.0	1962.
14	43.8	6.5		50.7	10.4	70.0	21.1	1953.	36.9	2.7	23.0	-5.0	1960.
15	43.5	6.4		50.4	10.2	74.0	23.3	1975.+	36.6	2.6	20.0	-6.7	1963.
16	42.5	5.8		49.2	9.6	78.0	25.6	1971.	35.9	2.1	18.0	-7.8	1958.
17	42.2	5.7		49.2	9.6	69.0	20.6	1946.	35.2	1.8	22.0	-5.6	1963.+
18	42.1	5.6		50.0	10.0	76.0	24.4	1984.	34.2	1.2	21.0	-6.1	1963.
19	41.2	5.1		48.0	8.9	74.0	23.3	1984.	34.4	1.3	20.0	-6.7	1963.
20	42.1	5.6		48.6	9.2	69.0	20.6	1957.	35.6	2.0	17.0	-8.3	1963.
21	41.7	5.4		48.0	8.9	69.0	20.6	1956.	35.4	1.9	18.0	-7.8	1981.+
22	41.6	5.4		48.2	9.0	75.0	23.9	1967.	35.0	1.7	20.0	-6.7	1976.
23	42.8	6.0		50.9	10.5	72.0	22.2	1981.	34.7	1.5	22.0	-5.6	1960.
24	43.6	6.4		50.5	10.3	70.0	21.1	1979.	36.7	2.6	12.0	-11.1	1983.
25	42.7	5.9		50.0	10.0	76.0	24.4	1964.	35.4	1.9	9.0	-12.8	1983.
26	42.2	5.7		49.2	9.6	72.0	22.2	1982.+	35.2	1.8	13.0	-10.6	1983.
27	41.9	5.5		48.3	9.1	73.0	22.8	1971.	35.5	1.9	22.0	-5.6	1948.
28	43.8	6.6		51.0	10.5	75.0	23.9	1984.	36.6	2.6	20.0	-6.7	1977.
29	43.9	6.6		50.9	10.5	74.0	23.3	1984.+	36.9	2.7	20.0	-6.7	1977.
30	43.1	6.2		50.6	10.3	73.0	22.8	1971.	35.6	2.0	21.0	-6.1	1962.
31	42.9	6.1		49.4	9.6	69.0	20.6	1965.	36.4	2.5	17.0	-8.3	1962.
MONTH	44.3	6.9		51.5	10.9	79.0	26.1	1982.	37.2	2.9	9.0	-12.8	1983.

NOTES :

T = TRACE AMOUNTS (<.01, OR <.5, OR < 1.0 INCHES)  
 \* = VALUE OCCURRED IN PREVIOUS YEAR(S).

THIS SYMBOL OMITTED FOR SNOWFALL AND SNOW DEPTH AMOUNTS = 0.0



## 30 - EXTREME VALUES

MAXIMUM TEMPERATURE (DEG F)  
(FROM DAILY OBS)013750 NORFOLK, VA  
PERIOD OF RECORD : 1945-1986LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
PAGE : 1

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1945	MISS	75	89	87	88	99	98	92	90	81	80	60	99
1946	74	73	PART	87	88	94	PART	93	93	PART	76	74	PART
1947	75	64	69	84	92	97	95	94	94	85	69	66	97
1948	66	76	87	86	87	98	PART	97	90	79	81	68	PART
1949	73	76	83	87	92	98	98	96	91	84	74	72	98
1950	77	69	PART	84	95	97	96	94	94	79	84	71	PART
1951	72	74	72	89	92	98	96	97	92	88	76	78	98
1952	75	66	83	91	87	101	100	94	92	89	77	72	101
1953	72	PART	PART	87	93	92	99	96	94	82	79	72	PART
1954	71	78	84	87	89	95	97	100	100	93	69	69	100
1955	66	72	80	90	93	93	97	96	87	85	83	70	97
1956	69	71	81	86	95	96	99	95	95	83	77	77	99
1957	73	70	72	92	91	96	99	96	94	78	76	69	99
1958	62	68	62	86	85	94	95	95	92	86	78	69	95
1959	73	73	81	85	92	100	98	99	93	88	83	65	100
1960	68	72	77	91	91	99	94	95	93	84	PART	68	PART
1961	63	73	81	88	89	91	95	93	94	80	82	69	95
1962	66	72	77	89	94	92	90	97	95	85	68	60	97
1963	67	68	81	87	93	93	96	95	90	85	73	64	96
1964	66	64	80	85	93	100	92	95	90	80	79	76	100
1965	73	76	76	86	97	93	95	93	92	81	76	69	97
1966	73	67	82	84	90	91	97	93	91	81	78	76	97
1967	76	70	83	89	89	93	92	90	84	85	73	75	93
1968	68	63	87	83	89	97	97	98	88	89	80	68	98
1969	67	57	70	86	94	98	95	91	91	79	71	72	98
1970	77	65	70	86	92	94	94	94	93	86	73	71	94
1971	67	71	76	85	85	96	93	93	88	84	84	78	96
1972	69	70	82	91	86	90	99	95	91	81	81	73	99
1973	69	68	85	85	87	95	92	95	92	88	81	73	95
1974	76	72	83	90	92	93	96	91	89	82	82	70	96
1975	78	82	84	87	91	96	94	98	92	85	78	74	98
1976	75	80	83	91	89	95	96	94	90	81	71	63	96
1977	56	77	79	87	89	96	97	100	94	89	76	70	100
1978	69	66	74	83	86	89	98	97	96	80	75	77	98
1979	67	57	78	82	81	89	95	98	92	85	83	70	98
1980	69	71	74	83	91	101	96	102	98	86	77	74	102
1981	64	73	78	89	93	99	97	99	90	87	75	72	99
1982	70	74	80	84	90	91	96	93	90	82	81	79	96
1983	63	71	79	87	90	94	100	102	MISS	MISS	76	66	PART
1984	67	73	74	79	91	95	MISS	90	93	87	75	76	PART
1985	75	79	88	93	89	91	92	95	95	88	80	70	95
1986	69	71	81	80	93	99	99	95	92	93	82	71	99
MEAN	69.9	70.9	79.1	86.6	90.3	95.2	96.0	95.2	92.0	84.3	77.4	70.9	97.5
S.D.	4.797	5.417	5.776	3.115	3.181	3.278	2.439	2.792	2.889	3.758	4.282	4.572	2.063
TOT OBS	41	41	39	42	42	42	39	42	41	40	41	42	34



# 30 - EXTREME VALUES

MAXIMUM TEMPERATURE (DEG F)  
(FROM DAILY OBS)

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
PAGE : 1

Q13750 NORFOLK, VA  
PERIOD OF RECORD : 1945-1986

## YEAR/MONTHS WITH < FULL NUMBER OF OBSERVATIONS

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL MAX TEMP # DAYS
1946			79. 30				93. 30			83. 30			
1948							95. 30						MAX TEMP # DAYS
1950			83. 30										MAX TEMP # DAYS
1953		75. 27	73. 30										MAX TEMP # DAYS
1960											76. 28		MAX TEMP # DAYS



## 31 - EXTREME VALUES

MINIMUM TEMPERATURE (DEG F)  
(FROM DAILY OBS)

013750 NORFOLK, VA  
 PERIOD OF RECORD : 1945-1986  
 LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
 PAGE : 1

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1945	MISS	19	37	44	48	54	65	64	65	47	30	22	MISS
1946	23	30	PART	40	47	59	PART	60	58	PART	35	26	MISS
1947	23	15	27	39	47	56	64	69	53	45	32	28	15
1948	17	23	25	43	52	59	PART	63	63	44	41	19	MISS
1949	30	31	27	43	52	59	70	68	54	52	32	30	27
1950	28	23	PART	30	46	60	68	63	52	52	21	22	MISS
1951	22	18	30	41	52	54	61	66	55	50	28	20	18
1952	22	30	32	43	51	61	68	63	57	35	32	25	22
1953	29	PART	PART	40	55	56	69	67	59	49	34	23	MISS
1954	21	26	30	33	48	60	65	66	58	43	36	22	21
1955	22	18	25	40	50	58	65	63	63	45	24	21	18
1956	25	27	29	39	42	57	67	67	55	53	31	30	25
1957	17	29	36	36	49	62	65	64	59	39	35	17	17
1958	22	12	34	41	50	57	68	67	55	47	29	18	12
1959	19	25	28	40	52	60	68	66	58	45	31	28	19
1960	23	26	22	38	40	61	63	72	62	43	PART	19	MISS
1961	22	21	30	41	47	55	66	63	55	43	33	25	21
1962	16	20	26	35	49	56	60	66	50	35	32	14	14
1963	15	15	32	41	40	56	62	62	54	41	32	17	15
1964	17	26	29	29	46	56	65	58	56	38	29	26	17
1965	20	15	29	38	50	49	60	53	56	33	33	26	15
1966	13	23	29	38	37	51	61	63	55	35	34	23	13
1967	26	18	24	40	47	47	61	61	51	41	27	24	18
1968	19	PART	28	38	47	59	64	60	59	43	35	23	MISS
1969	21	27	27	36	44	62	68	63	54	36	32	27	21
1970	11	18	31	36	49	58	67	69	50	45	24	28	11
1971	21	20	30	38	46	61	65	61	58	53	36	32	20
1972	10	25	36	35	52	55	58	59	51	41	32	23	10
1973	22	15	32	33	44	60	63	69	60	46	34	24	15
1974	26	25	28	32	40	58	60	60	51	33	26	31	25
1975	26	26	25	34	47	60	68	68	56	38	36	22	22
1976	16	24	28	35	42	58	62	60	56	36	25	20	16
1977	7	16	33	37	48	58	63	63	62	36	25	20	7
1978	15	20	23	42	42	57	58	67	60	40	38	30	15
1979	19	16	31	42	48	61	62	62	60	42	32	26	16
1980	24	17	20	38	43	55	65	64	52	37	31	16	16
1981	12	19	30	39	48	61	67	61	54	39	31	18	12
1982	9	27	28	30	49	61	63	52	52	41	37	27	9
1983	22	25	37	34	48	57	63	62	MISS	MISS	36	9	MISS
1984	18	26	29	37	49	57	MISS	62	56	45	32	27	MISS
1985	-1	21	31	33	46	53	62	62	55	46	40	17	-1
1986	15	19	20	39	48	59	65	58	53	45	31	26	15
MEAN	19.1	21.9	28.9	37.6	47.1	57.5	64.2	63.4	56.1	42.4	31.8	23.1	16.2
S.D.	6.298	4.945	4.157	3.793	3.885	3.344	3.088	4.137	3.798	5.528	4.360	4.989	5.585
TOT OBS	41	40	39	42	42	42	39	42	41	40	41	42	33



MINIMUM TEMPERATURE (DEG F)  
(FROM DAILY OBS)

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
PAGE : 1

Q13750 NORFOLK, VA  
PERIOD OF RECORD : 1945-1986

YEAR/MONTHS WITH &lt; FULL NUMBER OF OBSERVATIONS

[illegible]



HEATING DEGREE DAYS (BASE 65 DEG F)  
(FROM DAILY OBS)013750 NORFOLK, VA  
PERIOD OF RECORD : 1945-1986LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
PAGE : 1

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1945	MISS	1200	488	262	130	11	0	0	0	93	327	819	MISS
1946	691	567	MISS	220	38	2	MISS	0	0	MISS	247	526	MISS
1947	521	793	697	213	62	3	0	0	22	39	399	701	3450
1948	908	645	420	214	21	3	MISS	0	0	167	227	559	MISS
1949	497	432	468	200	46	0	0	0	10	44	384	563	2644
1950	372	562	MISS	294	73	0	0	0	24	49	437	774	MISS
1951	621	589	506	219	43	4	0	0	9	70	470	536	3067
1952	570	564	513	179	23	0	0	0	0	181	349	633	3012
1953	544	MISS	MISS	178	4	0	0	0	0	65	346	535	MISS
1954	685	462	464	143	87	0	0	0	0	118	415	679	3053
1955	781	628	372	145	40	5	0	0	0	89	399	797	3256
1956	807	495	493	255	94	1	0	0	13	50	383	361	2952
1957	763	534	473	149	46	1	0	0	7	181	296	541	2991
1958	817	774	626	223	44	1	0	0	3	96	254	797	3635
1959	720	571	470	180	11	0	0	0	0	82	331	627	2992
1960	752	683	832	218	97	0	0	0	0	107	MISS	776	MISS
1961	771	584	380	278	68	1	0	0	5	99	295	697	3178
1962	760	644	608	233	39	0	1	0	23	130	479	853	3770
1963	887	838	366	248	151	5	0	0	21	100	389	882	3887
1964	687	648	460	284	93	8	0	0	0	175	245	527	3127
1965	712	584	521	250	12	16	0	2	0	156	328	600	3181
1966	869	684	490	292	124	18	0	0	4	135	386	690	3692
1967	616	666	481	186	122	20	0	0	16	179	502	578	3366
1968	838	737	412	240	63	0	0	0	0	94	328	716	3428
1969	806	690	640	189	24	0	0	0	5	123	427	672	3576
1970	896	678	614	272	38	0	0	0	10	61	353	564	3486
1971	825	562	576	269	70	0	0	0	0	10	348	371	3031
1972	557	617	442	215	39	8	0	0	3	156	387	478	2902
1973	694	673	392	232	86	0	0	0	0	66	336	611	3090
1974	511	581	396	212	75	0	0	0	31	260	466	573	3105
1975	548	516	496	325	43	0	0	0	3	74	257	618	2880
1976	783	419	378	198	63	8	0	0	0	199	543	803	3394
1977	1116	650	337	138	31	0	0	0	0	171	360	678	3481
1978	874	911	633	252	103	4	0	0	0	169	294	575	3815
1979	754	852	435	212	49	0	0	0	0	151	242	562	3257
1980	723	766	519	157	44	2	0	0	8	154	441	706	3520
1981	952	584	572	146	79	0	0	0	4	153	381	721	3592
1982	883	612	468	271	8	0	0	2	2	156	305	478	3185
1983	704	628	380	252	56	0	0	0	MISS	MISS	325	701	MISS
1984	851	448	555	239	39	0	MISS	0	17	32	438	427	MISS
1985	905	664	408	158	21	0	0	0	2	55	157	704	3074
1986	795	632	461	210	62	0	0	0	3	76	315	615	3169



## 33 - YEAR/MONTH VALUES

COOLING DEGREE DAYS (BASE 65 DEG F)  
(FROM DAILY OBS)013750 NORFOLK, VA  
PERIOD OF RECORD : 1945-1986LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
PAGE : 1

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1945	MISS	0	162	124	238	378	433	390	356	45	14	0	MISS
1946	2	0	MISS	23	168	289	MISS	347	245	MISS	13	0	MISS
1947	2	0	0	34	178	274	397	445	321	112	0	0	1763
1948	0	0	39	28	125	331	MISS	410	241	24	26	0	MISS
1949	0	4	20	23	126	348	546	457	226	93	0	0	1843
1950	12	0	MISS	19	78	314	420	365	238	48	30	0	MISS
1951	0	0	1	27	108	310	460	434	266	64	3	5	1678
1952	0	0	15	45	132	445	540	448	263	33	0	0	1921
1953	0	MISS	MISS	36	246	320	515	444	257	61	2	0	MISS
1954	0	1	4	66	108	359	454	442	330	147	0	0	1911
1955	0	0	6	41	175	253	537	501	259	70	11	0	1853
1956	0	0	9	39	115	343	464	435	227	42	15	3	1692
1957	0	0	0	98	167	415	471	371	324	18	4	0	1868
1958	0	0	0	41	115	235	531	455	205	42	12	0	1636
1959	0	0	1	43	244	446	532	569	370	159	21	0	2385
1960	0	0	0	72	140	378	372	515	326	87	MISS	0	MISS
1961	0	0	20	39	85	275	483	413	324	37	32	0	1708
1962	0	0	4	62	195	277	343	404	225	64	0	0	1574
1963	0	0	2	56	72	275	419	427	150	29	0	0	1430
1964	0	0	5	14	157	303	376	325	244	26	8	9	1467
1965	0	0	0	22	265	267	394	381	300	22	0	0	1651
1966	0	0	6	23	72	255	462	369	230	36	8	3	1464
1967	0	0	3	61	55	217	375	346	115	37	0	0	1209
1968	0	0	18	6	95	328	439	516	247	99	5	0	1753
1969	0	0	0	39	160	393	432	367	198	58	0	0	1647
1970	1	0	0	23	156	313	423	499	333	68	0	0	1816
1971	0	1	0	3	66	337	460	417	302	124	24	4	1738
1972	0	0	10	35	83	233	463	397	262	36	10	0	1529
1973	0	0	22	24	85	397	446	474	321	76	14	0	1859
1974	4	0	16	40	115	257	431	339	176	19	24	0	1421
1975	3	5	1	29	174	387	462	539	275	79	28	0	1982
1976	3	13	13	96	105	350	424	358	215	29	0	0	1606
1977	0	2	14	66	145	202	487	480	359	28	13	0	1886
1978	0	0	0	4	85	240	406	495	317	37	1	6	1591
1979	0	0	9	5	93	231	433	467	286	69	28	0	1621
1980	0	0	0	18	186	303	95	507	341	49	0	0	1899
1981	0	0	1	54	129	432	488	359	210	30	0	0	1703
1982	0	0	2	12	184	277	473	371	191	51	21	8	1590
1983	0	0	2	28	138	300	538	501	MISS	MISS	3	0	MISS
1984	0	0	0	6	178	378	MISS	428	200	106	4	1	MISS
1985	0	4	17	90	146	292	425	396	269	98	31	0	1768
1986	0	0	5	2	165	365	549	375	249	114	16	0	1840



MEAN TEMPERATURE (DEG F)  
(FROM DAILY OBS)013750 NORFOLK, VA  
PERIOD OF RECORD : 1945-1986LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
PAGE : 1

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1945	MISS	43.5	59.7	62.6	66.7	77.2	78.9	77.5	76.8	63.4	54.5	38.5	MISS
1946	42.7	44.7	56.7P	58.4	69.1	74.5	77.5P	76.1	73.1	65.4P	57.1	48.0	MISS
1947	48.2	36.6	42.5	59.0	68.7	74.0	77.8	79.3	74.9	67.3	51.6	42.3	60.2
1948	35.7	41.9	52.7	58.7	68.3	75.9	80.1P	78.2	73.0	60.3	58.2	46.9	MISS
1949	48.9	49.7	50.5	59.0	67.5	76.5	82.6	79.7	72.1	66.5	52.1	46.8	62.7
1950	53.3	44.9	46.8P	55.8	65.1	75.4	78.5	76.7	72.1	64.9	51.4	40.0	MISS
1951	44.9	43.9	48.7	58.5	67.0	75.1	79.8	79.0	73.5	64.8	49.4	47.8	61.0
1952	46.6	44.8	48.9	60.5	68.5	79.8	82.4	79.4	73.7	60.2	53.3	44.5	61.9
1953	47.4	47.6P	52.0P	60.2	72.8	75.6	81.6	79.3	73.5	64.8	53.5	47.7	MISS
1954	42.9	48.5	50.1	62.4	65.6	76.9	79.6	79.2	76.0	65.9	51.1	43.0	61.8
1955	39.8	42.5	53.1	61.5	69.3	73.2	82.3	81.1	73.6	64.3	52.0	39.2	61.0
1956	38.9	47.3	49.3	57.7	65.6	76.3	79.9	79.0	72.1	64.7	52.7	53.4	61.4
1957	40.3	45.9	49.7	63.2	68.9	78.7	80.1	76.9	75.5	59.7	55.2	47.5	61.8
1958	38.6	37.3	44.8	58.9	67.2	72.7	82.1	79.6	71.7	63.2	56.9	39.2	59.3
1959	41.7	44.6	49.8	60.4	72.5	79.8	82.1	83.3	77.3	67.4	54.6	44.7	63.2
1960	40.7	40.6	38.1	60.1	66.3	77.5	77.0	81.6	75.8	64.3	55.2P	39.9	MISS
1961	40.1	44.1	53.3	57.0	65.5	74.1	80.5	78.3	75.6	63.0	56.2	42.5	60.8
1962	40.4	42.0	45.5	59.2	70.0	74.2	76.0	78.0	71.7	62.8	49.0	37.4	58.8
1963	36.3	35.0	53.2	58.5	62.4	74.0	78.5	78.7	69.2	62.7	52.0	36.5	58.1
1964	42.8	41.8	50.3	56.0	67.0	74.8	77.1	75.4	73.1	60.1	57.0	48.2	60.3
1965	42.0	44.1	48.1	57.3	73.1	73.3	77.7	77.2	75.0	60.6	54.0	45.6	60.7
1966	36.9	40.5	49.3	56.0	63.3	72.8	79.9	76.9	72.5	61.8	52.3	42.8	58.7
1967	45.1	41.2	49.5	60.8	62.8	71.5	77.0	76.1	68.2	60.4	48.2	46.3	58.9
1968	37.9	37.7	52.2	57.1	66.0	75.9	79.1	81.6	73.2	65.1	54.2	41.9	60.2
1969	39.0	40.3	44.3	60.0	69.3	78.0	78.9	76.8	71.4	62.9	50.7	43.3	59.6
1970	35.1	40.7	45.1	56.6	68.8	75.4	78.6	81.0	75.7	65.2	53.2	46.8	60.3
1971	38.3	44.0	46.4	56.1	64.8	76.2	79.8	78.4	75.0	68.6	54.1	53.1	61.3
1972	47.0	42.9	51.0	59.0	66.4	72.5	79.9	77.8	73.6	61.1	52.4	49.5	61.1
1973	42.6	40.9	53.0	58.0	64.9	78.2	79.3	80.2	75.6	65.3	54.2	45.2	61.4
1974	48.6	44.2	52.7	59.2	66.2	73.5	78.9	75.9	69.8	57.2	50.2	46.5	60.2
1975	47.4	46.7	49.0	55.1	69.2	77.8	79.9	82.3	74.0	65.1	57.3	45.0	62.4
1976	39.8	50.5	53.2	61.5	66.3	76.3	78.6	76.5	72.1	59.5	46.8	39.0	60.0
1977	29.0	41.8	54.5	62.5	68.6	74.7	80.7	80.4	76.9	60.3	53.4	43.1	60.5
1978	36.8	32.4	44.5	56.7	64.4	72.8	78.0	80.9	75.5	60.7	55.2	46.6	58.7
1979	40.6	34.5	51.2	58.0	66.4	72.6	78.9	80.0	74.5	62.3	57.8	46.8	60.3
1980	41.6	37.6	48.2	60.3	69.5	75.0	80.9	81.3	76.0	61.6	50.2	42.2	60.4
1981	34.2	44.1	46.5	61.9	66.6	79.3	80.7	76.5	71.8	61.0	52.2	41.7	59.7
1982	36.5	43.1	49.9	56.3	70.6	74.2	80.2	76.9	71.2	61.6	55.5	49.8	60.5
1983	42.2	42.5	52.8	57.5	67.6	75.0	82.3	81.1	MISS	MISS	54.2	42.3	MISS
1984	37.5	49.0	47.0	57.2	69.4	77.5	MISS	78.8	71.0	67.3	50.5	51.2	MISS
1985	35.8	41.4	52.3	62.7	69.0	74.7	78.7	77.7	73.8	66.3	60.7	42.2	61.3
1986	39.3	42.4	50.2	58.0	68.3	77.1	82.7	77.0	73.1	66.2	55.0	45.1	61.2



## 35 - YEAR/MONTH VALUES

TOTAL PRECIPITATION (INCHES)  
(FROM DAILY OBS.)013750 NORFOLK, VA  
PERIOD OF RECORD : 1945-1986LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
PAGE : 1

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1945	MISS	10.20	MISS	MISS	3.32	MISS	MISS	1.85	MISS	3.18	3.41	4.54	MISS
1946	1.94	2.64	.41P	2.40	5.68	3.14	4.45P	2.94P	4.09	1.04P	3.22	.77	MISS
1947	4.43P	.98P	2.64	4.16	2.54	4.52P	7.32	4.34	5.21	2.08	5.72	2.58	MISS
1948	4.12	3.88	2.52	5.53	7.43	4.89	3.80P	4.78	2.56	1.63	6.22	4.04	MISS
1949	2.00	5.43	2.64	1.75	6.09	2.40	4.14	7.60	3.59	2.07	2.57	3.12	43.40
1950	2.19	1.58	2.74P	2.49	3.50	2.35	8.89	3.64	4.69	1.75	1.08	2.82	MISS
1951	1.38	1.24P	2.18	1.81	2.60	6.12	.98	6.29	2.74	1.35	3.18	1.93	MISS
1952	4.03	3.68	4.55	1.30	2.86	.76	4.63	4.68	2.62	1.48	4.79	2.71	38.09
1953	1.50	3.07	2.67	4.16	1.80	1.50	3.14	10.88	4.22	.90	1.18	2.98	38.00
1954	4.23	2.46	4.45	3.79	4.04	.39	4.08	2.57	1.39	1.47	2.08	2.11	33.06
1955	1.39	3.16	3.53	2.06	.71	2.52	3.35	6.77	6.04	1.44	2.92	.95	34.84
1956	1.76	4.77	2.72	3.10	2.35	2.07	9.28	4.14	2.63	6.06	1.16	2.04	42.08
1957	3.68	3.98	3.27	2.79	1.82	2.91	1.19	2.72	4.56	2.40	4.93	4.82	39.07
1958	2.94	3.03	4.23	3.02	7.28	4.83	3.83	6.67	.53	5.04	2.65	3.77	47.82
1959	1.44	2.23	2.20	4.09	1.37	1.95	5.30	.95	5.11	7.36	2.15	2.43	36.58
1960	3.55	2.86	2.10	1.28	4.46	2.33	6.24	6.14	6.12	3.10	1.29P	2.11	MISS
1961	2.62	4.27	3.28	1.92	7.18	6.03	1.93	6.38	1.22	3.20	1.30	3.55	42.88
1962	4.63	2.41	3.10	2.86	2.35	3.36	7.32	4.03	2.79	3.29	3.89	2.64	42.67
1963	2.96	3.85	2.50	1.03	1.44	9.61	3.71	1.37	6.84	.53	4.20	2.49	40.53
1964	3.45	3.83	2.11	2.33	.97	1.96	2.83	10.42	7.76	4.45	1.17	3.00	44.28
1965	1.81	2.08	2.60	1.89	1.17	3.93	1.97	3.30	.88	.39	.79	.79	21.79
1966	3.24	3.32	1.51	.87	4.22	1.77	3.06	3.55	2.55	.68	.90	2.52	28.19
1967	4.04	2.84	1.31	1.22	2.35	1.80	5.98	4.47	2.81	.71	1.53	5.36	34.42
1968	2.92	.62	3.28	3.85	2.25	2.20	2.49	1.09	1.36	2.70	2.99	2.23	27.98
1969	1.91	1.97	4.19	1.68	2.64	2.16	12.17	3.63	3.08	1.72	.80P	2.82	MISS
1970	1.60	2.92	2.22	2.62	1.60	2.63	3.47	1.07	.75	.21	1.13	2.29	22.51
1971	2.94	2.82	2.61	2.40	3.41	.84	2.73	2.06	7.70	9.54	1.54	1.10	39.69
1972	3.68	4.59	3.39	2.98	4.75	6.64	4.83	1.78	10.34	4.63	6.30	4.12	58.03
1973	3.16	3.04	4.90	2.86	2.89	6.96	7.07	7.11	.97	1.68	1.82	6.59	49.05
1974	3.77	3.56	4.40	1.93	2.89	4.41	2.58	8.42	4.52	1.25	.63	3.62	41.98
1975	3.73	3.80	5.46	3.54	1.95	2.39	10.86	.94	3.65	2.31	2.04	3.50	44.17
1976	2.36	1.54	2.45	.48	3.26	2.22	3.27	2.88	3.02	3.66	1.77	2.67	29.58
1977	2.57	1.94	3.74	1.86	3.26	3.14	2.65	2.92	1.37	4.57	3.82	3.18	35.02
1978	5.45	1.12	6.18	2.36	3.53	4.88	4.87	1.58	.78	1.37	4.09	2.34	38.55
1979	6.26	4.62	3.67	6.32	9.28	2.20	4.22	5.74	18.24	2.09	4.17	.98	67.79
1980	3.98	2.79	5.08	2.87	2.60	.81	1.47	4.63	1.39	3.67	1.98	2.12	33.49
1981	.88	2.26	2.44	2.56	3.20	4.83	4.86	7.78	2.66	3.13	1.59	5.39	41.55
1982	3.18	6.25	3.05	2.03	2.70	3.14	3.94	4.52	2.61	3.55	2.67	4.06	41.70
1983	1.84	5.91	5.58	6.67	2.82	3.24	1.30	1.18	MISS	MISS	3.01	5.69	MISS
1984	2.63	4.22	4.33	5.49	5.21	2.73	MISS	1.04	1.54	.63	2.12	MISS	MISS
1985	5.00	3.89	1.84	.66	3.83	4.86	4.14	2.07	6.45	3.75	5.21	.71	42.41
1986	2.56	2.84	.82	3.91	.63	2.92	3.77	6.51	.52	1.31	1.34	3.21	30.34



# 36 - WEATHER CONDITIONS

ATMOSPHERIC PHENOMENON  
(FROM DAILY OBSERVATIONS)

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT  
MONTH : ALL

Q13750 NORFOLK, VA  
PERIOD OF RECORD : 1945-1986

MONTH	HOURS (LST)	TSTM	RAIN & DRIZZLE	FREEZE RAIN & FREEZE DRIZZLE	SNOW & SLEET	HAIL	% OF OBS WITH PRECIP	FOG	SMOKE & HAZE	BLOWING SNOW	DUST & SAND	% OBS. W/OBST VISION	TOTAL NO. OF OBS.
JAN	DAILY	1.2	41.2	.0	13.1	.2	46.4	39.5	58.1	1.3	.0	68.4	1055
FEB	DAILY	1.6	42.8	.0	11.5	.1	47.5	40.2	61.9	.6	.2	70.4	1010
MAR	DAILY	5.0	46.1	.0	6.3	.3	47.3	36.7	58.2	.4	.4	68.3	1116
APR	DAILY	8.5	46.3	.0	.6	.4	46.3	33.7	61.9	.0	.3	67.4	1080
MAY	DAILY	16.2	47.5	.0	.0	.4	47.5	42.5	69.8	.0	.2	75.7	1083
JUN	DAILY	18.7	41.0	.0	.0	.2	41.0	37.7	73.6	.0	.6	77.4	1070
JUL	DAILY	26.4	48.3	.0	.0	.0	48.3	37.3	75.5	.0	.3	77.6	1104
AUG	DAILY	21.3	44.7	.0	.0	.0	44.7	45.0	78.6	.0	.5	81.4	1110
SEP	DAILY	8.4	36.5	.0	.0	.0	36.5	40.5	66.8	.0	.1	72.5	1071
OCT	DAILY	3.3	35.8	.0	.2	.0	35.8	45.0	63.3	.0	.0	69.6	1107
NOV	DAILY	2.0	40.2	.0	1.5	.1	40.5	42.1	59.3	.0	.0	67.7	1075
DEC	DAILY	.8	36.7	.0	6.6	.1	39.2	40.1	57.7	.3	.0	67.5	1111
ANN	DAILY	9.5	42.3	.0	3.2	.1	43.4	40.0	65.4	.2	.2	72.0	12992

NOTES :  
\* = PERCENT < .05



## 37 - STATION CLIMATIC SUMMARY

LAT. : 36 57N LONG. : 76 17W ELEV. : 15 FT

13750 NORFOLK, VA  
PERIOD OF RECORD (HOURLY): 1945-1986 PERIOD OF RECORD (DAILY) : 1945-1986

TEMPERATURE (DEG F)		PRECIPITATION (INCHES)		(REL HUMIDITY)		WIND (KTS)		SKY (PRECIP. INCHES)		MEAN NO. OF DAYS WITH (G)		TEMP (DEG F)																				
MEANS	EXTREME	PRECIP.	ISNOWFALL	(24H)	(24H)	(24H)	(24H)	(24H)	(24H)	(24H)	(24H)	(24H)	(24H)																			
1	1	1	1	1	1	1	1	1	1	1	1	1	1																			
MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN																			
JAN 48	34	41	78	-1	.3	6.3	.9	2.6	2	12	7	71	60	.16	29	60	N	11	55	OVR	10	2	1	1	1	12	0	#	14	1		
FEB 50	35	43	82	12	.3	10.2	.6	2.7	2	17	9	71	58	.17	30	70	N	11	58	OVR	10	2	1	1	1	11	0	#	11	#		
MAR 58	42	50	89	20	.3	6.2	.4	2.5	1	19	11	72	55	.21	36	70	SSW	11	59	OVR	10	2	#	2	#	2	11	0	3	4	0	
APR 68	50	59	93	29	.3	6.7	.5	2.7	1	1	1	72	52	.29	44	65	SSW	10	61	OVR	9	2	#	0	3	10	#	9	#	0		
MAY 76	59	68	97	37	.3	9.3	.6	2.8	0	0	0	78	56	.43	55	45	SSW	10	51	OVR	10	2	0	0	5	13	2	17	0	0	0	
JUN 83	67	76	101	47	.3	9.6	.4	5.2	1	1	1	81	58	.59	64	40	SSW	9	61	SCT	9	2	0	0	0	6	11	7	26	0	0	0
JUL 87	72	80	100	58	.5	12.2	1.0	6.5	0	0	0	83	60	.70	69	30	SSW	9	65	SCT	10	3	0	0	0	8	11	11	30	0	0	0
AUG 85	72	79	102	52	.4	10.9	.9	6.4	0	0	0	83	62	.70	68	25	SSW	8	70	SCT	10	2	0	0	0	7	14	9	30	0	0	0
SEP 80	67	74	100	50	.4	18.2	.5	7.9	0	0	0	80	61	.57	63	35	NNE	11	66	SCT	7	2	0	0	0	3	12	3	23	0	0	0
OCT 70	56	63	93	33	.3	9.5	.2	3.3	1	1	1	78	60	.40	52	45	NNE	12	85	OVR	7	1	0	0	0	1	14	#	9	0	0	
NOV 61	46	54	84	21	.3	6.3	.4	2.5	1	2	1	74	58	.26	42	55	SSW	9	63	OVR	8	2	#	0	1	13	0	3	2	0	0	
DEC 52	37	45	79	9	.3	6.6	.7	2.3	1	16	9	72	60	.19	33	60	SSW	9	61	OVR	9	2	#	#	#	12	0	#	10	#	1	
ANN 68	53	61	102	-1	4.0	67.8	21.8	7.9	6	45	11	76	58	.35	49	55	SSW	10	85	OVR	108	25	3	1	34	144	31	150	40	1	1	
POR	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42

## NOTES :

- T = TRACE AMOUNTS ( < .05, < .5 INCHES
- B = MEAN NO. DAYS < .5 DAYS
- S = PRESSURE ALTITUDE IN TENS OF FEET (I.E., 50 = 500 FEET)
- Q = NAVY STATIONS REPORTED MAIL AS SNOWFALL
- NWS STATIONS REPORTED MAIL AS SNOWFALL FOR THE PERIOD JULY 1948-DECEMBER 1955.
- + = THE PREDOMINANT SKY CONDITION
- \* = VISIBILITY IS NOT CONSIDERED
- Σ = ANNUAL TOTALS MAY DIFFER FROM THE SUM OF THE MONTHLY VALUES BECAUSE OF ROUNDING
- = 24 HOUR MAXIMUM PRECIPITATION AND SNOWFALL ARE DAILY TOTAL VALUES (MID-NIGHT TO MID-NIGHT TOTALS).



[illegible]